



**FEATURED PRODUCTS**

- Bridge Rectifiers
- Fast Recovery Rectifiers
- Schottky Rectifiers
- Standard Rectifiers
- Ultrafast Recovery Rectifiers

**RESOURCES**

- For technical support, contact [Rectifiers@vishay.com](mailto:Rectifiers@vishay.com)
- For more information, contact [DiodesAmericas@vishay.com](mailto:DiodesAmericas@vishay.com), [DiodesEurope@vishay.com](mailto:DiodesEurope@vishay.com), and [DiodesAsia@vishay.com](mailto:DiodesAsia@vishay.com)

One of the World's Largest Manufacturers of  
**Discrete Semiconductors and Passive Components**





# RECTIFIERS

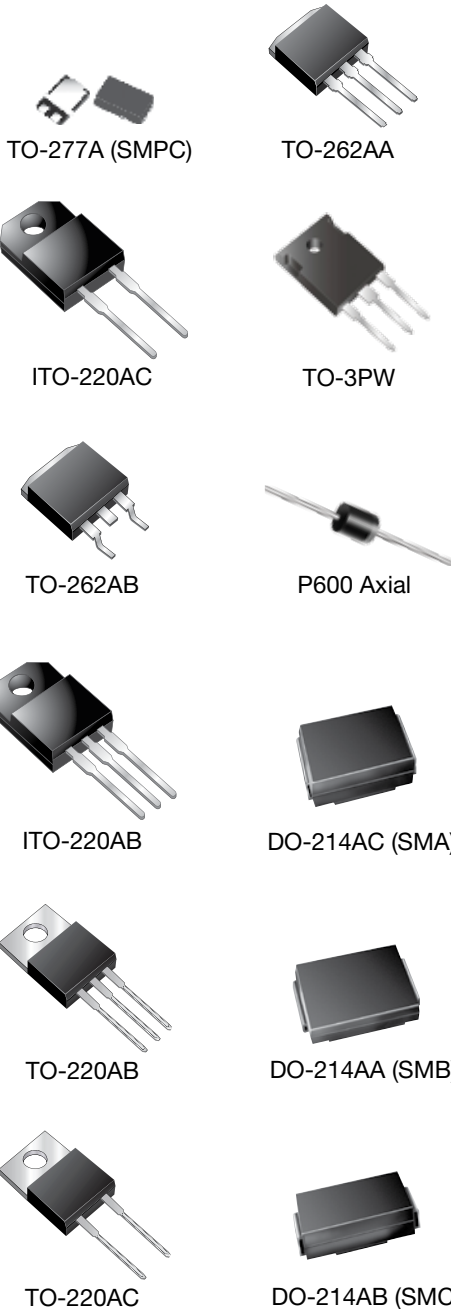


Rectifiers - Worldwide Leader in Power Rectifiers

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## Industry's First Commercial TMBS® - Trench MOS Barrier Schottky Rectifier Series



Vishay's patented Trench MOS Barrier Schottky (TMBS®) rectifiers are available with seven voltage ratings from 45 V to 200 V and several different package options to serve a wide range of system requirements. TMBS offers several advantages over planar Schottky rectifiers. As operating voltage moves to 45 V and above, planar Schottky rectifiers tend to lose their advantage of fast switching speeds and low forward voltage drop to a substantial degree. The patented TMBS structure addresses this issue by diminishing minority carrier injections to the drift region, thus minimizing stored charges and improving switching speeds.

For detailed information, please refer to the TMBS section of this selector guide or visit the Vishay website for the latest information on available devices.

### FEATURES

- Patented Trench structure
- Voltage ratings: 45 V, 60 V, 80 V, 100 V, 120 V, 150 V, 200 V
- Improved efficiency in AC/DC SMPS and DC/DC converters
- High power density and low forward voltage
- Multiple package options

### APPLICATIONS

- Adaptors for LCD monitors and TVs, mini PCs
- PC and server power supplies
- AD/DC SMPS
- DC/DC converters
- Telecom and server OR-ing diodes
- Solar Cell junction box as a bypass diode for protection



# RECTIFIERS

## Featured Product Information



### FRED Pt® Series 200 V to 600 V, $T_j$ max 175 °C: Flexible Ultrafast Platform for Power Supplies and Inverters



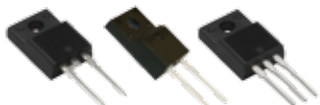
SMA / SMB / SMC



**DPAK (TO-252)**  
(rated 4 A to 15 A)



**TO-220AC / TO-220AB / Isolated TO-220AC**  
(rated 8 A to 30 A)



**TO-220FPAC / AB**  
(rated 8 A to 30 A)



**D²PAK (TO-263)**  
(rated 8 A to 30 A)



**I²PAK (TO-262)**  
(rated 8 A to 30 A)



**TO-247AC**  
(rated 30 A to 60 A)



**PowerTab®**  
(rated 80 A to 150 A)

The Vishay Semiconductors FRED Pt® Gen 1 and Gen 2 series of ultrafast diodes offers designers a highly flexible solution that's equally at home in consumer and automotive applications.

With ratings from 200 V to 600 V and from 3 A to 150 A -- unique in the industry -- this series allows designers to increase the efficiency of power supplies with devices designed to minimize conduction and/or switching losses.

Their extreme low leakage current at high temperature, careful design of chip terminations, and construction with high-quality materials make FRED Pt the ideal choice for automotive applications as well.

#### FEATURES

- $V_{RRM}$  200 V to 600 V
- Same current (A) rating is available for devices optimized for lowest conduction losses or lowest switching losses
  - Lowest  $Q_{rr}$  at 125 °C
  - Lowest  $V_F$  at  $I_F$
- Improved efficiency in SMPS
- Soft recovery for reduced EMI at high di/dt
- $T_j$  (max) 175 °C
- AEC-Q101 qualified
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)
- Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

#### APPLICATIONS

- Power factor correction (PFC) for switchmode power supplies in
  - Desktop PCs
  - Lighting/ballast
  - Servers and telecom
  - PDP, TVs, LCD, monitors
  - Game controllers
- ECU for fuel injection on diesel/gasoline-fueled systems
- Traction control systems
- Solar inverters
- Freewheeling diode for industrial applications



# RECTIFIERS

## Featured Product Information

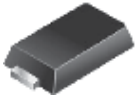


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### eSMP® Flat Type Surface-Mount Packages with Space-Saving Footprint

The Vishay Semiconductors eSMP® flat type surface-mount packages enables higher current density and power efficiency with a unique design that promotes better thermal performance and reliability.

#### SMP



(3.8 mm x 2 mm x 1 mm)

#### SMPC



(6.7 mm x 4.8 mm x 1.1 mm)

#### MicroSMP



(2.5 mm x 1.3 mm x 0.65 mm)

#### SYMMETRICAL FLAT TYPES

#### SMF



(3.7 mm x 1.8 mm x 0.98 mm)

#### SlimSMA



(5.2 mm x 2.6 mm x 0.95 mm)

#### FEATURES

- Space saving miniature packages:
  - SMP (3.8 mm x 2 mm x 1 mm)
  - SMPC (6.7 mm x 4.8 mm x 1.1 mm)
  - MicroSMP (2.5 mm x 1.3 mm x 0.65 mm)
  - SMF (3.7 mm x 1.8 mm x 0.98 mm)
    - » Symmetrical leads
      - Wave and reflow solderable
  - SlimSMA (5.2 mm x 2.6 mm x 0.95 mm)
    - » Symmetrical leads
- Special wide bottom plate design enables better heat dissipation than other packages of similar sizes
- Low device height
- Low thermal resistance
- AEC-Q101 qualified
- Halogen-free versions available
- Available for Schottky, ultrafast, and standard rectifiers

#### APPLICATIONS

- Telecom
- Automotive
- Computer
- Industrial
- Lighting
- DC/DC converters
- Free wheeling
- Mobile consumer electronics
- Solar Cell junction box as a bypass diode for protection

	<b>R<sub>θJM</sub></b>
<b>MicroSMP</b>	30 °C/W
<b>SMP</b>	15 °C/W
<b>SMPC</b>	3 °C/W
<b>SMF</b>	25 °C/W
<b>SlimSMA</b>	12 °C/W

## New isoCink+™ Series Enhanced Power Bridge Rectifiers 10 A to 25 A (BU series) and 30 A to 45 A (PB series)



Vishay's new isoCink+™ power bridge rectifier series gives designers a space saving, high-current solution for bridge rectifiers in switchmode power supplies (SMPS), home appliances, audio/video equipment, and more. With highly efficient performance comparable to larger size bridge products, the low thermal resistance of power bridge devices reduces size requirements for heat sinks, since less heat needs to be dissipated. Offering a lead pitch and pin layout compatible with the conventional GBU and GSIB-55, isoCink+™ offers the designers the ability to upgrade system power without changing PCB layouts or heat sinking. A maximum solder temperature of 275 °C/10 s enables high reliability in manual soldering.

### APPLICATIONS INCLUDE

- Primary rectification circuit of switch mode power supplies and adaptors for desktop PCs, servers, notebook PCs, plasma display panel (PDP) TVs, LCD TVs, and monitors
- Primary rectification circuit of inverter type home appliance as in refrigerator, washing machine, air conditioner and induction heater systems
- Primary rectification circuit in telecom SMPS

Part Number	Description	Package	$V_F$ at $I_F$ Per Chip, $T_j$
<a href="#">BU2506 to BU2510</a>	600 V to 1000 V 25 A single-phase bridge rectifier	BU	0.87 V typical at 12.5 A, 125 °C
<a href="#">BU2006 to BU2010</a>	600 V to 1000 V 20 A single-phase bridge rectifier	BU	0.85 V typical at 10 A, 125 °C
<a href="#">BU1506 to BU1510</a>	600 V to 1000 V 15 A single-phase bridge rectifier	BU	0.87 V typical at 7.5 A, 125 °C
<a href="#">BU1206 to BU1210</a>	600 V to 1000 V 12 A single-phase bridge rectifier	BU	0.88 V typical at 6 A, 125 °C
<a href="#">BU1006 to BU1010</a>	600 V to 1000 V 10 A single-phase bridge rectifier	BU	0.88 V typical at 5 A, 125 °C
<a href="#">PB3006 to PB3010</a>	600 V to 1000 V 30 A single-phase bridge rectifier	PB	0.97 V typical at 15 A, +125 °C
<a href="#">PB3506 to PB3510</a>	600 V to 1000 V 35 A single-phase bridge rectifier	PB	0.90 V typical at 17.5 A, +125 °C
<a href="#">PB4006 to PB4010</a>	600 V to 1000 V 40 A single-phase bridge rectifier	PB	0.94 V typical at 20 A, +125 °C
<a href="#">PB5006 to PB5010</a>	600 V to 1000 V 45 A single-phase bridge rectifier	PB	0.90 V typical at 22.5 A, +125 °C



# RECTIFIERS

## Schottky Rectifiers



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**Schottky Rectifiers** are the ideal product for high-speed and low power loss applications. Their metal-silicon junctions and majority carrier condition result in extremely fast recovery times (less than 10 ns) and very low forward voltage drops. Vishay's unique sputtered metallization process and ion implanted guarding technology result in a highly reliable Schottky product. We offer our customers the opportunity to select the best device for their applications by providing the flexibility of different barrier heights.

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
0.6	<a href="#">SB020 to SB060</a>	Plastic Axial	MPG06	20 to 60	0.55 / 0.70	0.6
1.0	<a href="#">1N5817 to 1N5819</a>	Plastic Axial	DO-204AL (DO-41)	20 to 40	0.45 to 0.60	1.0
1.0	<a href="#">BYM13-20 to BYM13-60</a>	Plastic SMD	DO-213AB (MELF)	20 to 60	0.50 to 0.70	1.0
<b>1.0</b>	<b><a href="#">MSS1P2L and MSS1P3L</a></b>	<b>Plastic SMD</b>	<b>MicroSMP</b>	<b>20 to 30</b>	<b>0.50</b>	<b>1.0</b>
<b>1.0</b>	<b><a href="#">MSS1P3 and MSS1P4</a></b>	<b>Plastic SMD</b>	<b>MicroSMP</b>	<b>30 to 40</b>	<b>0.55</b>	<b>1.0</b>
<b>1.0</b>	<b><a href="#">MSS1P5 and MSS1P6</a></b>	<b>Plastic SMD</b>	<b>MicroSMP</b>	<b>50 to 60</b>	<b>0.68</b>	<b>1.0</b>
1.0	<a href="#">SB120 to SB160</a>	Plastic Axial	DO-204AL (DO-41)	20 to 60	0.48 to 0.65	1.0
1.0	<a href="#">SB1H90 and SB1H100</a>	Plastic Axial	DO-204AL (DO-41)	90 to 100	0.77	1.0
1.0	SGL41-20 to SGL41-60	Plastic SMD	DO-213AB (MELF)	20 to 60	0.50 to 0.70	1.0
1.0	<a href="#">SS12 to SS16</a>	Plastic SMD	DO-214AC (SMA)	20 to 60	0.50 to 0.75	1.0
<b>1.0</b>	<b><a href="#">B120 to B160</a></b>	<b>Plastic SMD</b>	<b>DO-214AC (SMA)</b>	<b>20 to 60</b>	<b>0.52 to 0.75</b>	<b>1.0</b>
1.0	<a href="#">SS1H9 and SS1H10</a>	Plastic SMD	DO-214AC (SMA)	90 to 100	0.77	1.0
<b>1.0</b>	<b><a href="#">SS1P3L and SS1P4L</a></b>	<b>Plastic SMD</b>	<b>DO-220AA (SMP)</b>	<b>30 to 40</b>	<b>0.45 to 0.48</b>	<b>1.0</b>
<b>1.0</b>	<b><a href="#">SS1P3 and SS1P4</a></b>	<b>Plastic SMD</b>	<b>DO-220AA (SMP)</b>	<b>30 to 40</b>	<b>0.50 to 0.53</b>	<b>1.0</b>
<b>1.0</b>	<b><a href="#">SS1P5L and SS1P6L</a></b>	<b>Plastic SMD</b>	<b>DO-220AA (SMP)</b>	<b>50 to 60</b>	<b>0.59</b>	<b>1.0</b>
1.1	<a href="#">SL02</a>	Plastic SMD	DO-219AB	20	0.42	1.0
1.1	<a href="#">SL03</a>	Plastic SMD	DO-219AB	30	0.45	1.0
1.1	<a href="#">SL04</a>	Plastic SMD	DO-219AB	40	0.53	1.0
1.5	<a href="#">BYS10-25 to BYS10-45</a>	Plastic SMD	DO-214AC (SMA)	25 to 45	0.5	1.0
1.5	<a href="#">BYS11-90</a>	Plastic SMD	DO-214AC (SMA)	90	0.75	1.0
1.5	<a href="#">BYS12-90</a>	Plastic SMD	DO-214AC (SMA)	90	0.36 / 0.75	0.015 / 1.0
1.5	<a href="#">SL12 and SL13</a>	Plastic SMD	DO-214AC (SMA)	20 to 30	0.36 / 0.445	0.1 / 1.0
1.5	<a href="#">SS29 and SS210</a>	Plastic SMD	DO-214AA(SMB)	90 to 100	0.75/0.95	1.0/3.0
<b>2.0</b>	<b><a href="#">SB220 to SB260</a></b>	<b>Plastic Axial</b>	<b>DO-204AC (DO-15)</b>	<b>20 to 60</b>	<b>0.5 / 0.68</b>	<b>2.0</b>
<b>2.0</b>	<b><a href="#">SB220S to SB260S</a></b>	<b>Plastic Axial</b>	<b>DO-204AL (DO-41)</b>	<b>20 to 60</b>	<b>0.55 / 0.70</b>	<b>2.0</b>
2.0	<a href="#">SB2H90 and SB2H100</a>	Plastic Axial	DO-204AC (DO-15)	90 to 100	0.79	2.0
<b>2.0</b>	<b><a href="#">MSS2P2 and MSS2P3</a></b>	<b>Plastic SMD</b>	<b>MicroSMP</b>	<b>20 to 30</b>	<b>0.6</b>	<b>2.0</b>
<b>2.0</b>	<b><a href="#">B230LA and B240A</a></b>	<b>Plastic SMD</b>	<b>DO-214AC (SMA)</b>	<b>30 to 40</b>	<b>0.50 to 0.55</b>	<b>2.0</b>
2.0	<a href="#">SL22 and SL23</a>	Plastic SMD	DO-214AA (SMB)	20 to 30	0.395 / 0.44	1.0 / 2.0
2.0	<a href="#">SS22 to SS26</a>	Plastic SMD	DO-214AA (SMB)	20 to 60	0.50 to 0.70	2.0
<b>2.0</b>	<b><a href="#">SS22S, SS23S and SS24S</a></b>	<b>Plastic SMD</b>	<b>DO-214AC (SMA)</b>	<b>20 to 40</b>	<b>0.55</b>	<b>2.0</b>
<b>2.0</b>	<b><a href="#">SS25S and SS26S</a></b>	<b>Plastic SMD</b>	<b>DO-214AC (SMA)</b>	<b>50 to 60</b>	<b>0.75</b>	<b>2.0</b>
2.0	<a href="#">SS2H9 and SS2H10</a>	Plastic SMD	DO-214AA (SMB)	90 to 100	0.79	2.0
<b>2.0</b>	<b><a href="#">SS2P2, SS2P3 and SS2P4</a></b>	<b>Plastic SMD</b>	<b>DO-220AA (SMP)</b>	<b>20 to 40</b>	<b>0.55</b>	<b>2.0</b>
<b>2.0</b>	<b><a href="#">SS2P2L and SS2P3L</a></b>	<b>Plastic SMD</b>	<b>DO-220AA (SMP)</b>	<b>20 to 30</b>	<b>0.5</b>	<b>2.0</b>
<b>2.0</b>	<b><a href="#">SS2P5 and SS2P6</a></b>	<b>Plastic SMD</b>	<b>DO-220AA (SMP)</b>	<b>50 to 60</b>	<b>0.7</b>	<b>2.0</b>

Note:

1. Bold text indicates new product
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. All Schottky die are planar with oxide passivation
4. 35 V to 45 V product/50 V to 60 V product



# RECTIFIERS

## Schottky Rectifiers



Schottky Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
2.0	<b>SS2PH9 and SS2PH10</b>	Plastic SMD	DO-220AA (SMP)	90 to 100	0.8	2.0
2.0	<b>SSA23L and SSA24</b>	Plastic SMD	DO-214AC (SMA)	30 to 40	0.45 to 0.49	2.0
3.0	<b>B330LA and B340A</b>	Plastic SMD	DO-214AC (SMA)	30 to 40	0.50 to 0.55	3.0
3.0	<b>B340LB</b>	Plastic SMD	DO-214AA (SMB)	40	0.45	3.0
3.0	<b>B350A and B360A</b>	Plastic SMD	DO-214AC (SMA)	50 to 60	0.72	3.0
3.0	<b>B350B and B360B</b>	Plastic SMD	DO-214AA (SMB)	50 to 60	0.66	3.0
3.0	<b>1N5820 to 1N5822</b>	Plastic Axial	DO-201AD	20 to 40	0.475 to 0.525	3.0
3.0	<b>SB320 to SB360</b>	Plastic Axial	DO-201AD	20 to 60	0.49 to 0.68	3.0
3.0	<b>SB320S to SB360S</b>	Plastic Axial	DO-204AC (DO-15)	20 to 60	0.50 to 0.70	3.0
3.0	<b>SB3H90 and SB3H100</b>	Plastic Axial	DO-201AD	90 to 100	0.8	3.0
3.0	<b>SS32 to SS36</b>	Plastic SMD	DO-214AB (SMC)	20 to 60	0.5 to 0.75	3.0
3.0	<b>SS3H9 and SS3H10</b>	Plastic SMD	DO-214AB (SMC)	90 to 100	0.8	3.0
3.0	<b>SS3P3</b>	Plastic SMD	DO-220AA (SMP)	30	0.58	3.0
3.0	<b>SS3P4</b>	Plastic SMD	DO-220AA (SMP)	40	0.6	3.0
3.0	<b>SS3P5 and SS3P6</b>	Plastic SMD	DO-220AA (SMP)	50 to 60	0.78	3.0
3.0	<b>SSA33L and SSA34</b>	Plastic SMD	DO-214AC (SMA)	30 to 40	0.45 to 0.49	3.0
3.0	<b>SS3P3L and SS3P4L</b>	Plastic SMD	TO-277A (SMPC)	30 to 40	0.47	3.0
3.0	<b>SS3P5L and SS3P6L</b>	Plastic SMD	TO-277A (SMPC)	50 to 60	0.60	3.0
4.0	<b>SL42 and SL43</b>	Plastic SMD	DO-214AB (SMC)	20 to 30	0.42 / 0.47	4.0 / 8.0
4.0	<b>SL44</b>	Plastic SMD	DO-214AB (SMC)	40	0.44 / 0.50	4.0 / 8.0
4.0	<b>SSB43L and SSB44</b>	Plastic SMD	DO-214AA (SMB)	30 to 40	0.45 to 0.49	4.0
5.0	<b>SB520 to SB560</b>	Plastic Axial	DO-201AD	20 to 60	0.48 to 0.65	5.0
5.0	<b>SB520A to SB560A</b>	Plastic Axial	DO-201AD	20 to 60	0.50 to 0.70	5.0
5.0	<b>SB5H90 and SB5H100</b>	Plastic Axial	DO-201AD	90 to 100	0.8	5.0
5.0	<b>SSC53L and SSC54</b>	Plastic SMD	DO-214AB (SMC)	30 to 40	0.45 to 0.49	5.0
5.0	<b>SS5P3 and SS5P4</b>	Plastic SMD	TO-277A (SMPC)	30 to 40	0.52	5.0
5.0	<b>SS5P5 and SS5P6</b>	Plastic SMD	TO-277A (SMPC)	50 to 60	0.69	5.0
5.0	<b>SS5P9 and SS5P10</b>	Plastic SMD	TO-277A (SMPC)	90 to 100	0.88	5.0
6.0	<b>SS6P4C</b>	Plastic SMD <sup>(2)</sup>	TO-277A (SMPC)	40	0.65	3.0
7.5	MBR735 to MBR760	Plastic Power Pack	TO-220AC	35 to 60	0.84 / 0.75 <sup>(4)</sup>	15.0 / 7.5
7.5	<b>MBRB735 to MBRB760</b>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.84 / 0.75 <sup>(4)</sup>	15.0 / 7.5
7.5	MBRF735 to MBRF760	Isolated Power Pack	ITO-220AC	35 to 60	0.84 / 0.75 <sup>(4)</sup>	15.0 / 7.5
7.5	MBR7H35 to MBR7H60	Plastic Power Pack	TO-220AC	35 to 60	0.63 / 0.73 <sup>(4)</sup>	7.5
7.5	<b>MBRB7H35 to MBRB7H60</b>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.63 / 0.73 <sup>(4)</sup>	7.5
7.5	MBRF7H35 to MBRF7H60	Isolated Power Pack	ITO-220AC	35 to 60	0.63 / 0.73 <sup>(4)</sup>	7.5
8.0	SBL8L40	Plastic Power Pack	TO-220AC	40	0.44/0.50	4.0/8.0
8.0	<b>SS8P2L and SS8P3L</b>	Plastic SMD	TO-277A (SMPC)	20 to 30	0.57	8.0
8.0	<b>SS8PH9 and SS8PH10</b>	Plastic SMD	TO-277A (SMPC)	90 to 100	0.9	8.0
8.0	<b>SS8P2CL and SS8P3CL</b>	Plastic SMD <sup>(2)</sup>	TO-277A (SMPC)	20 to 30	0.54	4.0
8.0	<b>SS8P3C and SS8P4C</b>	Plastic SMD <sup>(2)</sup>	TO-277A (SMPC)	30 to 40	0.58	4.0

Note:

1. Bold text indicates new product
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)

3. All Schottky die are planar with oxide passivation
4. 35 V to 45 V product/50 V to 60 V product





# RECTIFIERS

## Schottky Rectifiers



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Schottky Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
<b>8.0</b>	<b><a href="#">SS8P5C and SS8P6C</a></b>	Plastic SMD <sup>(2)</sup>	TO-277A (SMPC)	50 to 60	<b>0.70</b>	<b>4.0</b>
10.0	<a href="#">MBR1035 to MBR1060</a>	Plastic Power Pack	TO-220AC	35 to 60	0.84 / 0.80 <sup>(4)</sup>	20.0 / 10.0
10.0	<a href="#">MBRB1035 to MBRB1060</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.84 / 0.80 <sup>(4)</sup>	20.0 / 10.0
10.0	MBRF1035 to MBRF1060	Isolated Power Pack	ITO-220AC	35 to 60	0.84 / 0.80 <sup>(4)</sup>	20.0 / 10.0
10.0	MBR10H35 to MBR10H60	Plastic Power Pack	TO-220AC	35 to 60	0.63 / 0.71 <sup>(4)</sup>	10.0
10.0	MBRB10H35 to MBRB10H60	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.63 / 0.71 <sup>(4)</sup>	10.0
10.0	MBRF10H35 to MBRF10H60	Isolated Power Pack	ITO-220AC	35 to 60	0.63 / 0.71 <sup>(4)</sup>	10.0
10.0	MBR10H90 and MBR10H100	Plastic Power Pack	TO-220AC	90 to 100	0.77	10.0
10.0	MBRB10H90 and MBR10H100	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	90 to 100	0.77	10.0
10.0	MBRF10H90 and MBRF10H100	Isolated Power Pack	ITO-220AC	90 to 100	0.77	10.0
10.0	MBR10H90CT and MBR10H100CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	90 to 100	0.76	5.0
10.0	MBRB10H90CT and MBRB10H100CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	90 to 100	0.76	5.0
10.0	MBRF10H90CT and MBRF10H100CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	90 to 100	0.76	5.0
10.0	MBR10H150CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	150	0.88	5.0
10.0	SB10H150CT-1	Plastic Power Pack <sup>(2)</sup>	TO-262AA	150	0.88	5.0
10.0	MBRF10H150CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	150	0.88	5.0
10.0	SBL1030 and SBL1040	Plastic Power Pack	TO-220AC	30 to 40	0.6	10.0
10.0	SBLB1030 and SBLB1040	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	30 to 40	0.6	10.0
10.0	<a href="#">SBLF1030 and SBLF1040</a>	Isolated Power Pack	ITO-220AC	30 to 40	0.6	10.0
10.0	SBL1030CT and SBL1040CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	30 to 40	0.55	5.0
10.0	SBLB1030CT and SBLB1040CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	30 to 40	0.55	5.0
10.0	SBLF1030CT and SBLF1040CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	30 to 40	0.55	5.0
10.0	SBL10L25	Plastic Power Pack	TO-220AC	25	0.46	10.0
10.0	SBLB10L25	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	25	0.46	10.0
10.0	SBLF10L25	Isolated Power Pack	ITO-220AC	25	0.46	10.0
10.0	<a href="#">SBL10L30</a>	Plastic Power Pack	TO-220AC	30	0.52	10.0
10.0	SBLB10L30	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	30	0.52	10.0
10.0	SBLF10L30	Isolated Power Pack	ITO-220AC	30	0.52	10.0
<b>10.0</b>	<b><a href="#">SS10P2CL and SS10P3CL</a></b>	Plastic SMD	TO-277A (SMPC)	20 to 30	<b>0.52</b>	<b>5.0</b>
<b>10.0</b>	<b><a href="#">SS10P3C and SS10P4C</a></b>	Plastic SMD	TO-277A (SMPC)	30 to 40	<b>0.53</b>	<b>5.0</b>
<b>10.0</b>	<b><a href="#">SS10P3 and SS10P4</a></b>	Plastic SMD	TO-277A (SMPC)	30 to 40	<b>0.56</b>	<b>10.0</b>
<b>10.0</b>	<b><a href="#">SS10P5 and SS10P6</a></b>	Plastic SMD	TO-277A (SMPC)	50 to 60	<b>0.67</b>	<b>10.0</b>
<b>10.0</b>	<b><a href="#">SS10PH45</a></b>	Plastic SMD	TO-277A (SMPC)	45	<b>0.72</b>	<b>10.0</b>
<b>10.0</b>	<b><a href="#">SS10PH9 and SS10PH10</a></b>	Plastic SMD	TO-277A (SMPC)	90 to 100	<b>0.88</b>	<b>10.0</b>
<b>12.0</b>	<b><a href="#">SS12P2L and SS12P3L</a></b>	Plastic SMD	TO-277A (SMPC)	20 to 30	<b>0.56</b>	<b>12.0</b>
<b>12.0</b>	<b><a href="#">SS12P4C</a></b>	Plastic SMD	TO-277A (SMPC)	40	<b>0.52</b>	<b>6.0</b>
<b>12.0</b>	<b><a href="#">SS12P4S</a></b>	Plastic SMD	TO-277A (SMPC)	40	<b>0.60</b>	<b>12.0</b>
<b>15.0</b>	<b>SB15H45</b>	Plastic Axial	P600	45	<b>0.64</b>	<b>15.0</b>
15.0	<a href="#">MBR1535CT to MBR1560CT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 60	0.84 / 0.75 <sup>(4)</sup>	15.0 / 7.5
15.0	MBRB1535CT to MBRB1560CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.84 / 0.75 <sup>(4)</sup>	15.0 / 7.5

Note:

1. Bold text indicates new product
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)

3. All Schottky die are planar with oxide passivation
4. 35 V to 45 V product/50 V to 60 V product



# RECTIFIERS

## Schottky Rectifiers



Schottky Rectifiers, continued

Rectifiers - Worldwide Leader in Power Rectifiers

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
15.0	MBRF1535CT to MBRF1560CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 60	0.84 / 0.75 <sup>(4)</sup>	15.0 / 7.5
15.0	MBR15H35CT to MBR15H60CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 60	0.63 / 0.73 <sup>(4)</sup>	7.5
15.0	MBRB15H35CT to MBRB15H60CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.63 / 0.73 <sup>(4)</sup>	7.5
15.0	MBRF15H35CT to MBRF15H60CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 60	0.63 / 0.73 <sup>(4)</sup>	7.5
<b>15.0</b>	<b>SS15P3S</b>	<b>Plastic SMD</b>	<b>TO-277A (SMPC)</b>	<b>30</b>	<b>0.57</b>	<b>15.0</b>
16.0	<a href="#">MBR1635 to MBR1660</a>	Plastic Power Pack	TO-220AC	35 to 60	0.63 / 0.75 <sup>(4)</sup>	16.0
16.0	<a href="#">MBRB1635 to MBRB1660</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.63 / 0.75 <sup>(4)</sup>	16.0
16.0	MBRF1635 to MBRF1660	Isolated Power Pack	ITO-220AC	35 to 60	0.63 / 0.75 <sup>(4)</sup>	16.0
16.0	MBR16H35 to MBR16H60	Plastic Power Pack	TO-220AC	35 to 60	0.66 / 0.73 <sup>(4)</sup>	16.0
16.0	MBRB16H35 to MBRB16H60	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.66 / 0.73 <sup>(4)</sup>	16.0
16.0	MBRF16H35 to MBRF16H60	Isolated Power Pack	ITO-220AC	35 to 60	0.66 / 0.73 <sup>(4)</sup>	16.0
16.0	SBL1630CT and SBL1640CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	30 to 40	0.55	8.0
16.0	SBLB1630CT and SBLB1640CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	30 to 40	0.55	8.0
16.0	<a href="#">SBLF1630CT and SBLF1640CT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	30 to 40	0.55	8.0
20.0	MBR2035CT to MBR2060CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 60	0.65 / 0.80 <sup>(4)</sup>	10.0
20.0	<a href="#">MBRB2035CT to MBRB2060CT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.65 / 0.80 <sup>(4)</sup>	10.0
20.0	MBRF2035CT to MBRF2060CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 60	0.65 / 0.80 <sup>(4)</sup>	10.0
20.0	MBR20H35CT to MBR20H60CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 60	0.63 / 0.71 <sup>(4)</sup>	10.0
20.0	MBRB20H35CT to MBRB20H60CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.63 / 0.71 <sup>(4)</sup>	10.0
20.0	MBRF20H35CT to MBRF20H60CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 60	0.63 / 0.71 <sup>(4)</sup>	10.0
20.0	MBR20H90CT and MBR20H100CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	90 to 100	0.77	10.0
20.0	MBRB20H90CT and MBRB20H100CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	90 to 100	0.77	10.0
20.0	MBRF20H90CT and MBRF20H100CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	90 to 100	0.77	10.0
20.0	MBR20H90CTG and MBR20H100CTG	Plastic Power Pack <sup>(2)</sup>	TO-220AB	90 to 100	0.85	10.0
20.0	MBR20H150CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	150	0.9	10.0
20.0	SB20H150CT-1	Plastic Power Pack <sup>(2)</sup>	TO-262AA	150	0.9	10.0
20.0	MBRF20H150CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	150	0.9	10.0
20.0	MBR20H200CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	200	0.88	10.0
20.0	SB20H200CT-1	Power Pack SMD <sup>(2)</sup>	TO-262AA	200	0.88	10.0
20.0	MBRF20H200CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	200	0.88	10.0
20.0	<a href="#">M2035S and M2045S</a>	Plastic Power Pack	TO-220AB	35 to 45	0.7	20.0
20.0	MI2050C to MI2060C	Plastic Power Pack <sup>(2)</sup>	TO-262AA	50 to 60	0.74	10.0
20.0	SBL2030CT and SBL2040CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	30 to 40	0.6	10.0
20.0	SBLB2030CT and SBLB2040CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	30 to 40	0.6	10.0
20.0	<a href="#">SBLF2030CT and SBLF2040CT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	30 to 40	0.6	10.0
20.0	SBL2030PT and SBL2040PT	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	30 to 40	0.55	10.0
25.0	SBL25L20CT to SBL25L30CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	20 to 30	0.49	12.5
25.0	SBLB25L20CT to SBLB25L30CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	20 to 30	0.49	12.5
25.0	<a href="#">SBLF25L20CT to SBLF25L30CT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	20 to 30	0.49	12.5
30.0	MBR2535CT to MBR2560CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 60	0.82 / 0.75 <sup>(4)</sup>	30.0 / 15.0

Note:

1. Bold text indicates new product
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. All Schottky die are planar with oxide passivation
4. 35 V to 45 V product/50 V to 60 V product



# RECTIFIERS

## Schottky Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

Schottky Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
30.0	MBRB2535CT to MBRB2560CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.82 / 0.75 <sup>(4)</sup>	30.0 / 15.0
30.0	MBRF2535CT to MBRF2560CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 60	0.82 / 0.75 <sup>(4)</sup>	30.0 / 15.0
30.0	MBR25H35CT to MBR25H60CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 60	0.64 / 0.70 <sup>(4)</sup>	15.0
30.0	MBRB25H35CT to MBRB25H60CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.64 / 0.70 <sup>(4)</sup>	15.0
30.0	MBRF25H35CT to MBRF25H60CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 60	0.64 / 0.70 <sup>(4)</sup>	15.0
30.0	MBR3035CT and MBR3045CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 45	0.76	30.0
30.0	<a href="#">MBRB3035CT and MBRB3045CT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 45	0.76	30.0
30.0	MBRF3035CT and MBRF3045CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 45	0.76	30.0
30.0	MBR30H35CT to MBR30H60CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	35 to 60	0.62 / 0.68 <sup>(4)</sup>	15.0
30.0	MBRB30H35CT to MBRB30H60CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	35 to 60	0.62 / 0.68 <sup>(4)</sup>	15.0
30.0	MBRF30H35CT to MBRF30H60CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	35 to 60	0.62 / 0.68 <sup>(4)</sup>	15.0
30.0	MBR3035PT to MBR3060PT	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	35 to 60	0.76 / 0.75 <sup>(4)</sup>	30.0 / 20.0
30.0	MBR30H35PT to MBR30H60PT	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	35 to 60	0.66 / 0.74 <sup>(4)</sup>	20.0
30.0	MBR30H90CT and MBR30H100CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	90 to 100	0.82	15.0
30.0	MBRF30H90CT and MBRF30H100CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	90 to 100	0.82	15.0
30.0	MBRB30H90CT and MBRB30H100CT	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	90 to 100	0.82	15.0
30.0	MBR30H90PT and MBR30H100PT	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	90 to 100	0.82	15.0
30.0	MBR30H150CT	Plastic Power Pack <sup>(2)</sup>	TO-220AB	150	0.90	15.0
30.0	SB30H150CT-1	Plastic Power Pack <sup>(2)</sup>	TO-262AA	150	0.90	15.0
30.0	MBRF30H150CT	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	150	0.90	15.0
30.0	<a href="#">M3035S and M3045S</a>	Plastic Power Pack	TO-220AB	35 to 45	0.70	30.0
30.0	<a href="#">MB3035S and MB3045S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	35 to 45	0.70	30.0
30.0	<a href="#">MI3035S and MI3045S</a>	Plastic Power Pack	TO-262AA	35 to 45	0.70	30.0
<b>30.0</b>	<a href="#">M3060C</a>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-220AB</b>	<b>60</b>	<b>0.72</b>	<b>15.0</b>
<b>30.0</b>	<a href="#">MI3060C</a>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-262AA</b>	<b>60</b>	<b>0.72</b>	<b>15.0</b>
<b>30.0</b>	<a href="#">MF3060C</a>	<b>Isolated Power Pack<sup>(2)</sup></b>	<b>ITO-220AB</b>	<b>60</b>	<b>0.72</b>	<b>15.0</b>
<b>30.0</b>	<a href="#">M30L40C</a>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-220AB</b>	<b>40</b>	<b>0.55</b>	<b>15.0</b>
<b>30.0</b>	<a href="#">M30L45C</a>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-220AB</b>	<b>45</b>	<b>0.60</b>	<b>15.0</b>
30.0	SBL3030PT and SBL3040PT	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	30 to 40	0.55	15.0
30.0	<a href="#">SD241P</a>	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	45	0.47 / 0.60	10.0 / 20.0 (125 °C)
40.0	MBR4035PT to MBR4060PT	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	35 to 60	0.70 / 0.72 <sup>(4)</sup>	20.0
<b>40.0</b>	<b>MBR40H35CT to MBR40H60CT</b>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-220AB</b>	<b>35 to 60</b>	<b>0.64 / 0.68<sup>(4)</sup></b>	<b>20.0</b>
<b>40.0</b>	<b>MBR40H35PT to MBR40H60PT</b>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-247AD (TO-3P)</b>	<b>35 to 60</b>	<b>0.63 / 0.69<sup>(4)</sup></b>	<b>20.0</b>
40.0	SBL4030PT to SBL4040PT	Plastic Power Pack <sup>(2)</sup>	TO-247AD (TO-3P)	30 to 40	0.58	20.0
<b>60.0</b>	<b>MBR60100CT</b>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-220AB</b>	<b>100</b>	<b>0.82 / 1.0</b>	<b>30.0 / 60.0</b>
<b>60.0</b>	<a href="#">M6035C to M6060C</a>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-220AB</b>	<b>35 to 60</b>	<b>0.61/0.65<sup>(4)</sup></b>	<b>30.0</b>
<b>60.0</b>	<a href="#">M6035P to M6060P</a>	<b>Plastic Power Pack<sup>(2)</sup></b>	<b>TO-247AD (TO-3P)</b>	<b>35 to 60</b>	<b>0.60 / 0.64<sup>(4)</sup></b>	<b>30.0</b>

Note:

1. Bold text indicates new product
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)

3. All Schottky die are planar with oxide passivation
4. 35 V to 45 V product/50 V to 60 V product



**TMBS® ( Trench MOS Barrier Schottky ) Rectifiers**

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
2	<b>VSB220S</b>	Plastic Axial	DO-204AL (DO-41)	200	1.23	2.0
2	<a href="#">VSSA210</a>	Plastic SMD	DO-214AC (SMA)	100	0.70	2.0
3	<a href="#">V3P6</a>	Plastic SMD	DO-220AA (SMP)	60	0.63	3.0
2	<a href="#">VSB3200S</a>	Plastic Axial	DO-204AC (DO-15)	200	1.40	3.0
2	<a href="#">VSB3200</a>	Plastic Axial	DO-201AD	200	1.20	3.0
3	<a href="#">VSSA310S</a>	Plastic SMD	DO-214AC (SMA)	100	0.80	3.0
3	<a href="#">VSSB310</a>	Plastic SMD	DO-214AA(SMB)	100	0.7	3.0
3	<a href="#">VSSA36S</a>	Plastic SMD	DO-214AC (SMA)	60	0.63	3.0
3	<a href="#">VSSA3L6S</a>	Plastic SMD	DO-214AC (SMA)	60	0.58	3.0
3	<a href="#">VSSB3L6S</a>	Plastic SMD	DO-214AA(SMB)	60	0.59	3.0
4	<a href="#">VSSB410S</a>	Plastic SMD	DO-214AA(SMB)	100	0.77	4.0
4	<a href="#">VSSB420S</a>	Plastic SMD	DO-214AA(SMB)	200	1.9	4.0
5	<a href="#">VT5200</a>	Plastic Power Pack	T0-220AC	200	1.60	5.0
5	<a href="#">VSSC520S</a>	Plastic SMD	DO-214AB(SMC)	200	1.7	5.0
5	<a href="#">VFT5200</a>	Isolated Power Pack	ITO-220AC	200	1.60	5.0
5	<a href="#">VBT5200</a>	Power Pack SMD	T0-263AB (D <sup>2</sup> PAK)	200	1.60	5.0
5	<a href="#">VIT5200</a>	Plastic Power Pack	T0-262AA	200	1.60	5.0
7	<a href="#">VT760</a>	Plastic Power Pack	T0-220AC	60	0.80	7.5
7	<a href="#">VFT760</a>	Isolated Power Pack	ITO-220AC	60	0.80	7.5
7	<a href="#">VBT760</a>	Power Pack SMD	T0-263AB (D <sup>2</sup> PAK)	60	0.80	7.5
7	<a href="#">VIT760</a>	Plastic Power Pack	T0-262AA	60	0.80	7.5
8	<a href="#">V8P10</a>	Plastic SMD	T0-277A (SMPC)	100	0.68	8.0
8	<a href="#">V8P12</a>	Plastic SMD	T0-277A (SMPC)	120	0.84	8.0
8	<a href="#">V8P20</a>	Plastic SMD	T0-277A (SMPC)	200	1.40	8.0
10	<a href="#">V10P10</a>	Plastic SMD	T0-277A (SMPC)	100	0.68	10
10	<a href="#">V10P12</a>	Plastic SMD	T0-277A (SMPC)	120	0.82	10
10	<a href="#">V10P20</a>	Plastic SMD	T0-277A (SMPC)	200	1.34	10
10	<a href="#">V10P45</a>	Plastic SMD	T0-277A (SMPC)	45	0.57	10
10	<a href="#">V10P45S</a>	Plastic SMD	T0-277A (SMPC)	45	0.57	10
10	<a href="#">V10PL45</a>	Plastic SMD	T0-277A (SMPC)	45	0.52	10
10	<a href="#">MBR1090 and MBR10100</a>	Plastic Power Pack	T0-220AC	90 - 100	0.80	10
	<a href="#">MBRF1090 and MBRF10100</a>	Isolated Power Pack	ITO-220AC	90 - 100	0.80	10
	<a href="#">MBRB1090 and MBRB10100</a>	Power Pack SMD	T0-263AB (D <sup>2</sup> PAK)	90 - 100	0.80	10
10	<a href="#">MBR1090CT and MBR10100CT</a>	Plastic Power Pack <sup>(2)</sup>	T0-220AB	90 - 100	0.85	5.0
10	<a href="#">MBRF1090CT and MBRF10100CT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	90 - 100	0.85	5.0
10	<a href="#">VT1060C</a>	Plastic Power Pack <sup>(2)</sup>	T0-220AB	60	0.70	5.0
	<a href="#">VFT1060C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	60	0.70	5.0
	<a href="#">VBT1060C</a>	Power Pack SMD <sup>(2)</sup>	T0-263AB (D <sup>2</sup> PAK)	60	0.70	5.0
	<a href="#">VIT1060C</a>	Plastic Power Pack <sup>(2)</sup>	T0-262AA	60	0.70	5.0

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# RECTIFIERS

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I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
10	<a href="#">VT1080C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	80	0.72	5.0
	<a href="#">VFT1080C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	80	0.72	5.0
	<a href="#">VBT1080C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	80	0.72	5.0
	<a href="#">VIT1080C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	80	0.72	5.0
10	<a href="#">VT1080S</a>	Plastic Power Pack	TO-220AB	80	0.81	10
	<a href="#">VFT1080S</a>	Isolated Power Pack	ITO-220AB	80	0.81	10
	<a href="#">VBT1080S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	80	0.81	10
	<a href="#">VIT1080S</a>	Plastic Power Pack	TO-262AA	80	0.81	10
10	<a href="#">V10150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	150	1.41	5
	<a href="#">VFT10150C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	150	1.41	5
	<a href="#">VBT10150C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	1.41	5
	<a href="#">VIT10150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	150	1.41	5
10	<a href="#">V10150S</a>	Plastic Power Pack	TO-220AB	150	1.2	10
	<a href="#">VFT10150S</a>	Isolated Power Pack	ITO-220AB	150	1.2	10
	<a href="#">VBT10150S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	150	1.2	10
	<a href="#">VIT10150S</a>	Plastic Power Pack	TO-262AA	150	1.2	10
10	<a href="#">VT10200C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	200	1.60	5.0
	<a href="#">VFT10200C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	200	1.60	5.0
	<a href="#">VBT10200C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.60	5.0
	<a href="#">VIT10200C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	200	1.60	5.0
10	<a href="#">VT1045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.58	5.0
	<a href="#">VFT1045C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.58	5.0
	<a href="#">VBT1045C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.58	5.0
	<a href="#">VIT1045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	45	0.58	5.0
10	<a href="#">VT1045CBP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.58	5.0
	<a href="#">VFT1045CBP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.58	5.0
	<a href="#">VBT1045CBP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.58	5.0
10	<a href="#">VT1045BP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	45	0.68	10
	<a href="#">VFT1045BP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	45	0.68	10
	<a href="#">VBT1045BP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.68	10
12	<a href="#">V12P10</a>	Plastic SMD	TO-277A (SMPC)	100	0.70	12
	<a href="#">V12P12</a>	Plastic SMD	TO-277A (SMPC)	120	0.80	12
15	<a href="#">V15P45</a>	Plastic SMD	TO-277A (SMPC)	45	0.58	15
15	<a href="#">V15P45S</a>	Plastic SMD	TO-277A (SMPC)	45	0.58	15
15	<a href="#">VSB1545</a>	Plastic Axial	P600	45	0.59	15
15	<a href="#">VSB15L45</a>	Plastic Axial	P600	45	0.57	15
20	<a href="#">MBR2090CT and MBR20100CT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	100	0.80	10
	<a href="#">MBRF2090CT and MBRF20100CT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	100	0.80	10
	<a href="#">MBRB2090CT and MBRB20100CT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	100	0.80	10

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I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
20	<a href="#">VSB2045</a>	Plastic Axial	P600	45	0.58	20
20	<a href="#">VSB20L45</a>	Plastic Axial	P600	45	0.56	20
20	<a href="#">VT2045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.58	10
	<a href="#">VFT2045C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.58	10
	<a href="#">VBT2045C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.58	10
	<a href="#">VIT2045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	45	0.58	10
20	<a href="#">VT2045CBP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.58	10
	<a href="#">VFT2045CBP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.58	10
	<a href="#">VBT2045CBP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.58	10
20	<a href="#">VT2045BP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	45	0.66	20
	<a href="#">VFT2045BP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	45	0.66	20
	<a href="#">VBT2045BP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.66	20
20	<a href="#">VT2060C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	60	0.65	10
	<a href="#">VFT2060C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	60	0.65	10
	<a href="#">VBT2060C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	60	0.65	10
	<a href="#">VIT2060C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	60	0.65	10
20	<a href="#">VT2060G</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	60	0.90	10
	<a href="#">VFT2060G</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	60	0.90	10
	<a href="#">VBT2060G</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	60	0.90	10
	<a href="#">VIT2060G</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	60	0.90	10
20	<a href="#">VT2080C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	80	0.81	10
	<a href="#">VFT2080C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	80	0.81	10
	<a href="#">VBT2080C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	80	0.81	10
	<a href="#">VIT2080C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	80	0.81	10
20	<a href="#">VT2080S</a>	Plastic Power Pack	TO-220AB	80	0.92	20
	<a href="#">VFT2080S</a>	Isolated Power Pack	ITO-220AB	80	0.92	20
	<a href="#">VBT2080S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	80	0.92	20
	<a href="#">VIT2080S</a>	Plastic Power Pack	TO-262AA	80	0.92	20
20	<a href="#">V20100C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	100	0.79	10
	<a href="#">VF20100C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	100	0.79	10
	<a href="#">VB20100C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	100	0.79	10
	<a href="#">VI20100C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	100	0.79	10
20	<a href="#">V20100R</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	100	0.90	10
	<a href="#">VF20100R</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	100	0.90	10
20	<a href="#">V20100S</a>	Plastic Power Pack	TO-220AB	100	0.90	20
	<a href="#">VB20100S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	100	0.90	20
	<a href="#">VF20100S</a>	Isolated Power Pack	ITO-220AB	100	0.90	20
	<a href="#">VI20100S</a>	Plastic Power Pack	TO-262AA	100	0.90	20

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# RECTIFIERS

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TMBS®, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
20	<a href="#">V20100SG</a>	Plastic Power Pack	TO-220AB	100	1.07	20
	<a href="#">VF20100SG</a>	Isolated Power Pack	ITO-220AB	100	1.07	20
	<a href="#">VB20100SG</a>	Plastic Power Pack	TO-263AB (D <sup>2</sup> PAK)	100	1.07	20
	<a href="#">VI20100SG</a>	Plastic Power Pack	TO-262AA	100	1.07	20
20	<a href="#">V20120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	120	0.90	10
	<a href="#">VF20120C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	120	0.90	10
	<a href="#">VB20120C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	120	0.90	10
	<a href="#">VI20120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	120	0.90	10
20	<a href="#">V20M120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	120	0.91	10
	<a href="#">VF20M120C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	120	0.91	10
	<a href="#">VB20M120C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	120	0.91	10
	<a href="#">VI20M120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	120	0.91	10
20	<a href="#">V20120S</a>	Plastic Power Pack	TO-220AB	120	1.12	20
	<a href="#">VF20120S</a>	Isolated Power Pack	ITO-220AB	120	1.12	20
	<a href="#">VB20120S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.12	20
	<a href="#">VI20120S</a>	Plastic Power Pack	TO-262AA	120	1.12	20
20	<a href="#">V20120SG</a>	Plastic Power Pack	TO-220AB	120	1.33	20
	<a href="#">VF20120SG</a>	Isolated Power Pack	ITO-220AB	120	1.33	20
	<a href="#">VB20120SG</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.33	20
	<a href="#">VI20120SG</a>	Plastic Power Pack	TO-262AA	120	1.33	20
20	<a href="#">V20150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	150	1.20	10
	<a href="#">VF20150C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	150	1.20	10
	<a href="#">VB20150C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	1.20	10
	<a href="#">VI20150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	150	1.20	10
20	<a href="#">V20150S</a>	Plastic Power Pack	TO-220AB	150	1.43	20
	<a href="#">VF20150S</a>	Isolated Power Pack	ITO-220AB	150	1.43	20
	<a href="#">VB20150S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	150	1.43	20
	<a href="#">VI20150S</a>	Plastic Power Pack	TO-262AA	150	1.43	20
20	<a href="#">V20150SG</a>	Plastic Power Pack	TO-220AB	150	1.60	20
	<a href="#">VF20150SG</a>	Isolated Power Pack	ITO-220AB	150	1.60	20
	<a href="#">VB20150SG</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	150	1.60	20
	<a href="#">VI20150SG</a>	Plastic Power Pack	TO-262AA	150	1.60	20
20	<a href="#">V20200C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	200	1.60	10
	<a href="#">VF20200C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	200	1.60	10
	<a href="#">VB20200C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.60	10
	<a href="#">VI20200C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	200	1.60	10
20	<a href="#">V20200G</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	200	1.70	10
	<a href="#">VF20200G</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	200	1.70	10
	<a href="#">VB20200G</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.70	10
	<a href="#">VI20200G</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	200	1.70	10

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I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
30	<a href="#">VT3045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.57	15
	<a href="#">VFT3045C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.57	15
	<a href="#">VBT3045C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.57	15
	<a href="#">VIT3045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	45	0.57	15
30	<a href="#">VT3045CBP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.57	15
	<a href="#">VFT3045CBP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.57	15
	<a href="#">VBT3045CBP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.57	15
30	<a href="#">VT3045BP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	45	0.70	30
	<a href="#">VFT3045BP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	45	0.70	30
	<a href="#">VBT3045BP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.70	30
30	<a href="#">VT3060C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	60	0.70	15
	<a href="#">VFT3060C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	60	0.70	15
	<a href="#">VBT3060C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	60	0.70	15
	<a href="#">VIT3060C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	60	0.70	15
30	<a href="#">VT3060G</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	60	0.73	15
	<a href="#">VFT3060G</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	60	0.73	15
	<a href="#">VBT3060G</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	60	0.73	15
	<a href="#">VIT3060G</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	60	0.73	15
30	<a href="#">VT3080C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	80	0.82	15
	<a href="#">VFT3080C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	80	0.82	15
	<a href="#">VBT3080C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	80	0.82	15
	<a href="#">VIT3080C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	80	0.82	15
30	<a href="#">VT3080S</a>	Plastic Power Pack	TO-220AB	80	0.95	30
	<a href="#">VFT3080S</a>	Isolated Power Pack	ITO-220AB	80	0.95	30
	<a href="#">VBT3080S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	80	0.95	30
	<a href="#">VIT3080S</a>	Plastic Power Pack	TO-262AA	80	0.95	30
30	<a href="#">V30100C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	100	0.80	15
	<a href="#">VF30100C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	100	0.80	15
	<a href="#">VB30100C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	100	0.80	15
	<a href="#">VI30100C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	100	0.80	15
30	<a href="#">V30100S</a>	Plastic Power Pack	TO-220AB	100	0.91	30
	<a href="#">VF30100S</a>	Isolated Power Pack	ITO-220AB	100	0.91	30
	<a href="#">VB30100S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	100	0.91	30
	<a href="#">VI30100S</a>	Plastic Power Pack	TO-262AA	100	0.91	30
30	<a href="#">V30100SG</a>	Plastic Power Pack	TO-220AB	120	1.00	30
	<a href="#">VF30100SG</a>	Isolated Power Pack	ITO-220AB	120	1.00	30
	<a href="#">VB30100SG</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.00	30
	<a href="#">VI30100SG</a>	Plastic Power Pack	TO-262AA	120	1.00	30

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		Family <sup>(3)</sup>	Type		(V)	(A)
30	<a href="#">V30120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	120	0.97	15
	<a href="#">VF30120C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	120	0.97	15
	<a href="#">VB30120C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	120	0.97	15
	<a href="#">VI30120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	120	0.97	15
30	<a href="#">V30M120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	120	0.98	15
	<a href="#">VF30M120C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	120	0.98	15
	<a href="#">VB30M120C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	120	0.98	15
	<a href="#">VI30M120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	120	0.98	15
30	<a href="#">V30120S</a>	Plastic Power Pack	TO-220AB	120	1.10	30
	<a href="#">VF30120S</a>	Isolated Power Pack	ITO-220AB	120	1.10	30
	<a href="#">VB30120S</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.10	30
	<a href="#">VI30120S</a>	Plastic Power Pack	TO-262AA	120	1.10	30
30	<a href="#">V30120SG</a>	Plastic Power Pack	TO-220AB	120	1.28	30
	<a href="#">VF30120SG</a>	Isolated Power Pack	ITO-220AB	120	1.28	30
	<a href="#">VB30120SG</a>	Power Pack SMD	TO-263AB (D <sup>2</sup> PAK)	120	1.28	30
	<a href="#">VI30120SG</a>	Plastic Power Pack	TO-262AA	120	1.28	30
30	<a href="#">V30150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	150	1.36	15
	<a href="#">VF30150C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	150	1.36	15
	<a href="#">VB30150C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	1.36	15
	<a href="#">VI30150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	150	1.36	15
30	<a href="#">V30200C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	200	1.10	15
	<a href="#">VF30200C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	200	1.10	15
	<a href="#">VB30200C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.10	15
	<a href="#">VI30200C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	200	1.10	15
30	<a href="#">V30100PW</a>	Plastic Power Pack <sup>(2)</sup>	TO-3PW	100	0.91	15
40	<a href="#">VT4045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.58	20
	<a href="#">VFT4045C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.58	20
	<a href="#">VBT4045C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.58	20
	<a href="#">VIT4045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	45	0.58	20
40	<a href="#">VT4045BP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	45	0.67	40
	<a href="#">VFT4045BP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	45	0.67	40
	<a href="#">VBT4045BP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.67	40
40	<a href="#">V40100C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	100	0.73	20
	<a href="#">VF40100C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	100	0.73	20
	<a href="#">VB40100C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	100	0.73	20
	<a href="#">VI40100C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	100	0.73	20
40	<a href="#">V40100G</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	100	0.81	20
	<a href="#">VF40100G</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	100	0.81	20
	<a href="#">VB40100G</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	100	0.81	20
	<a href="#">VI40100G</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	100	0.81	20

Note:

1. Bold text indicates new product
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)



# RECTIFIERS

## Schottky Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

TMBS®, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family <sup>(3)</sup>	Type		(V)	(A)
40	<a href="#">V40100K</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	100	0.82	20
40	<a href="#">V40120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	120	0.88	20
	<a href="#">VF40120C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	120	0.88	20
	<a href="#">VB40120C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	120	0.88	20
	<a href="#">VI40120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	120	0.88	20
40	<a href="#">V40M120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	120	0.89	20
	<a href="#">VF40M120C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	120	0.89	20
	<a href="#">VB40M120C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	120	0.89	20
	<a href="#">VI40M120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	120	0.89	20
40	<a href="#">V40150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	150	1.43	20
	<a href="#">VF40150C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	150	1.43	20
	<a href="#">VB40150C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	1.43	20
	<a href="#">VI40150C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	150	1.43	20
40	<a href="#">V40100PW</a>	Plastic Power Pack <sup>(2)</sup>	TO-3PW	100	0.77	20
40	<a href="#">V40100PGW</a>	Plastic Power Pack <sup>(2)</sup>	TO-3PW	100	0.85	20
50	<a href="#">V50100PW</a>	Plastic Power Pack <sup>(2)</sup>	TO-3PW	100	0.84	25
60	<a href="#">VT6045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.64	30
	<a href="#">VFT6045C</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.64	30
	<a href="#">VBT6045C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.64	30
	<a href="#">VIT6045C</a>	Plastic Power Pack <sup>(2)</sup>	TO-262AA	45	0.64	30
60	<a href="#">VT6045CBP</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	45	0.64	30
	<a href="#">VFT6045CBP</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AB	45	0.64	30
	<a href="#">VBT6045CBP</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.64	30
60	<a href="#">V60100C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	100	0.79	30
	<a href="#">VB60100C</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	100	0.79	30
60	<a href="#">V60120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AB	120	0.95	30
	<a href="#">VB60120C</a>	Plastic Power Pack <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	120	0.95	30
60	<a href="#">V60100PW</a>	Plastic Power Pack <sup>(2)</sup>	TO-3PW	100	0.86	30
60	<a href="#">V60200PGW</a>	Plastic Power Pack <sup>(2)</sup>	TO-3PW	200	1.48	30
80	<a href="#">V80100PW</a>	Plastic Power Pack <sup>(2)</sup>	TO-3PW	100	0.84	40

Note:

1. Bold text indicates new product
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)



The Vishay portfolio of Schottky diodes offers the industry's widest range of current and voltage ratings in a broad range of through-hole and surface-mount packages. Addressing every application area where Schottky diodes are used, these high performance devices are built by Vishay on well-established with planar technology as well as on our leading-edge submicron trench technology. Gen 5.0 trench based devices feature a maximum junction temperature of 175 °C and voltage ratings of 45 V and 100 V. Gen 2.0 and Gen 3.1 planar technology devices feature 125 °C, 150 °C, or 175 °C maximum junction temperatures and several voltage rating options from 15 V to 150 V. Both device types offer specific advantages based on the final customer application, including superior efficiency, robust avalanche capability, and the ability to withstand voltage spikes.

**HPS GEN 5.0 (Submicron Trench Technology)**

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>J</sub> Max (°C)
			Family	Type		(V)	(A)	
6	<a href="#">VS-6CUT04x</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-251AA (IPAK)	40	0.49	3	175
6	<a href="#">VS-6CWT04FNx</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	40	0.49	3	175
8	<a href="#">VS-8TT100</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	100	0.58	8	175
10	<a href="#">VS-MBR10T100</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	100	0.68	10	175
10	<a href="#">VS-10UT10x</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-251AA (IPAK)	100	0.53	10	175
10	<a href="#">VS-10WT10FNx</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	100	0.53	10	175
15	<a href="#">VS-15TT100</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	100	0.67	15	175
16	<a href="#">VS-16CTT100</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.69	8	175
18	<a href="#">VS-18TT045-F</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	45	0.50	18	175
20	<a href="#">VS-20TT100</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AB	100	0.67	20	175
20	<a href="#">VS-MBR20T100CT</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.80	10	175
20	<a href="#">VS-21TT100</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	100	0.68	20	175
20	<a href="#">VS-20UT04x</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-251AA (IPAK)	40	0.415	20	175
20	<a href="#">VS-20WT04FNx</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	40	0.415	20	175
20	<a href="#">VS-20CUT10x</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-251AA (IPAK)	100	0.615	10	175
20	<a href="#">VS-20CWT10FNx</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	100	0.615	10	175
30	<a href="#">VS-30CTT045</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	45	0.50	15	175
30	<a href="#">VS-30CTT050-F</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	50	0.50	15	175
30	<a href="#">VS-30CTT100</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.79	15	175
30	<a href="#">VS-30PT100</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	100	0.64	30	175
30	<a href="#">VS-30CPT100</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	100	0.79	15	175
40	<a href="#">VS-43CTT100</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.80	20	175
60	<a href="#">VS-60CPT045</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	45	0.50	30	175
40	<a href="#">VS-MBR40H100WT-F</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	100	0.63	20	175
60	<a href="#">VS-63CPT100</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	100	0.76	30	175

Note:

1. Singled die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented
4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free mould compound and RoHs Compliant
7. Halogen free mould compound and RoHs compliant and totally lead free
8. RoHs compliant and totally lead free
9. RoHs compliant



**HPS GEN 3.x (Planar Technology)**

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I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>j</sub> Max (°C)
			Family	Type		(V)	(A)	
3	<a href="#">30BQ100GPBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	100	0.62	3	175
5	<a href="#">VS-50SQ100Gx</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AR	60-80-100	0.52	5	175
<b>5</b>	<b><a href="#">VS-50SQ100Gx-M3</a></b>	<b>I</b>	<b>Plastic Axial<sup>(1)(3)(7)</sup></b>	<b>DO-204AR</b>	<b>60-80-100</b>	<b>0.52</b>	<b>5</b>	<b>175</b>
8	<a href="#">VS-8TQ100GSxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	D <sup>2</sup> PAK	80-100	0.58	8	175
8	<a href="#">VS-8TQ100GPBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	80-100	0.58	8	175
<b>8</b>	<b><a href="#">VS-8TQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>80-100</b>	<b>0.58</b>	<b>8</b>	<b>175</b>
16	<a href="#">VS-16CTQ100GSxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	D <sup>2</sup> PAK	60-80-100	0.69	8	175
16	<a href="#">VS-16CTQ100GPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	60-80-100	0.69	8	175
<b>16</b>	<b><a href="#">VS-16CTQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>60-80-100</b>	<b>0.69</b>	<b>8</b>	<b>175</b>
16	<a href="#">VS-16CTQ100G-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262	80-100	0.69	8	175
20	<a href="#">VS-MBRB20100CTGxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	D <sup>2</sup> PAK	100	0.85	10	175
20	<a href="#">VS-MBR20100CTG-1P</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262	80-100	0.85	10	175
30	<a href="#">VS-30CTQ100GSxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	D <sup>2</sup> PAK	80-100	0.82	15	175
30	<a href="#">VS-30CTQ100GPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	80-100	0.82	15	175
<b>30</b>	<b><a href="#">VS-30CTQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>80-100</b>	<b>0.82</b>	<b>15</b>	<b>175</b>
30	<a href="#">VS-30CTQ100G-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262	80-100	0.82	15	175
30	<a href="#">VS-30CPQ100GPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247	80-100	0.81	15	175
<b>30</b>	<b><a href="#">VS-30CPQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247</b>	<b>80-100</b>	<b>0.81</b>	<b>15</b>	<b>175</b>
40	<a href="#">VS-43CTQ100GSxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	D <sup>2</sup> PAK	80-100	0.81	20	175
40	<a href="#">VS-43CTQ100GPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.81	20	175
<b>40</b>	<b><a href="#">VS-43CTQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>80-100</b>	<b>0.81</b>	<b>20</b>	<b>175</b>
40	<a href="#">VS-43CTQ100G-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262	80-100	0.81	20	175
40	<a href="#">VS-40CPQ100GPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247	80-100	0.75	20	175
<b>40</b>	<b><a href="#">VS-40CPQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247</b>	<b>80-100</b>	<b>0.75</b>	<b>20</b>	<b>175</b>
60	<a href="#">VS-63CTQ100GPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.83	30	175
<b>60</b>	<b><a href="#">VS-63CTQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>100</b>	<b>0.83</b>	<b>30</b>	<b>175</b>
60	<a href="#">VS-63CPQ100GPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247	80-100	0.76	30	175
<b>60</b>	<b><a href="#">VS-63CPQ100G-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247</b>	<b>80-100</b>	<b>0.76</b>	<b>30</b>	<b>175</b>

Note:

1. Singled die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
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4. Source: I = formerly International Rectifier Diode unit
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7. Halogen free mould compound and RoHs compliant and totally lead free
8. RoHs compliant and totally lead free
9. RoHs compliant



**HPS GEN 2.x (Planar Technology)**

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>j</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
1	<a href="#">VS-1N5817x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	20	0.45	1	150
1	<a href="#">VS-1N5817x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>20</b>	<b>0.45</b>	<b>1</b>	<b>150</b>
1	<a href="#">VS-MBR1100x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	100	0.68	1	150
1	<a href="#">VS-MBR1100x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>100</b>	<b>0.68</b>	<b>1</b>	<b>150</b>
1	<a href="#">VS-1N5819x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	30-40	0.55	1	150
1	<a href="#">VS-1N5819x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>30-40</b>	<b>0.55</b>	<b>1</b>	<b>150</b>
1	<a href="#">VS-MBR160x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	50-60	0.65	1	150
1	<a href="#">VS-MBR160x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>50-60</b>	<b>0.65</b>	<b>1</b>	<b>150</b>
1	<a href="#">VS-MBRA120PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	20	0.35	1	150
1	<a href="#">VS-10MQ040-M3</a>	I	<b>Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>SMA</b>	<b>40</b>	<b>0.49</b>	<b>1</b>	<b>150</b>
1	<a href="#">VS-MBRA140PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	40	0.49	1	150
1	<a href="#">VS-10MQ060-M3</a>	I	<b>Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>SMA</b>	<b>60</b>	<b>0.57</b>	<b>1</b>	<b>150</b>
1	<a href="#">VS-10BQ015PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	15	0.32	1	125
1	<a href="#">VS-MBRS120PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	20	0.35	1	150
1	<a href="#">VS-10BQ030PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	30	0.30	1	150
1	<a href="#">VS-MBRS130LPBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	30	0.30	1	125
1	<a href="#">VS-MBRS130PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	30	0.42	1	125
1	<a href="#">VS-10BQ040PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	40	0.49	1	150
1	<a href="#">VS-MBRS140PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	40	0.53	1	150
1	<a href="#">VS-10BQ060PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	60	0.57	1	150
1	<a href="#">VS-10BQ100PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	100	0.62	1	175
1	<a href="#">VS-MBRS1100PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	90-100	0.62	1	175
1.5	<a href="#">VS-10MQ060NPBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	60	0.63	1.5	150
1.1	<a href="#">VS-11DQ04x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	30-40	0.50	1	150
1.1	<a href="#">VS-11DQ04x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>30-40</b>	<b>0.50</b>	<b>1</b>	<b>150</b>
1.1	<a href="#">VS-11DQ06x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	50-60	0.53	1	150
1.1	<a href="#">VS-11DQ06x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>50-60</b>	<b>0.53</b>	<b>1</b>	<b>150</b>
1.1	<a href="#">VS-11DQ10x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	90-100	0.68	1	150
1.1	<a href="#">VS-11DQ10x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>90-100</b>	<b>0.68</b>	<b>1</b>	<b>150</b>
1.5	<a href="#">VS-15MQ040-M3</a>	I	<b>Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>SMA</b>	<b>40</b>	<b>0.34</b>	<b>1.5</b>	<b>150</b>
2	<a href="#">VS-21DQ04x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	40	0.50	2	150
2	<a href="#">VS-21DQ04x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>40</b>	<b>0.50</b>	<b>2</b>	<b>150</b>
2	<a href="#">VS-21DQ06x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	60	0.55	2	150
2	<a href="#">VS-21DQ06x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AL</b>	<b>60</b>	<b>0.55</b>	<b>2</b>	<b>150</b>

Note:

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3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
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4. Source: I = formerly International Rectifier Diode unit
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# RECTIFIERS

## Schottky Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

HPS GEN 2.x (Planar Technology), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>J</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
2	<a href="#">VS-20BQ030PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMB	30	0.37	2	150
2	<a href="#">VS-20MQ040-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMA	40	<b>0.63</b>	2	<b>150</b>
2	<a href="#">VS-20MQ060-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMA	60	<b>0.68</b>	2	<b>150</b>
2	<a href="#">VS-20MQ100-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMA	100	<b>0.72</b>	2	<b>150</b>
2.1	<a href="#">VS-10MQ040NPBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	40	0.56	1.5	150
2.1	<a href="#">VS-20MQ040PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	40	0.63	2	150
2.1	<a href="#">VS-20MQ060PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	60	0.68	2	150
2.1	<a href="#">VS-10MQ100NPBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	100	0.68	1.5	150
2.1	<a href="#">VS-10MQ100-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMA	100	<b>0.63</b>	1	<b>150</b>
2.1	<a href="#">VS-20MQ100PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	100	0.72	2	150
3	<a href="#">VS-1N5820x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	C-16	20	0.47	3	150
3	<a href="#">VS-1N5820x-M3</a>	I	Plastic Axial <sup>(1)(3)(6)</sup>	C-16	20	<b>0.47</b>	3	<b>150</b>
3	<a href="#">VS-MBR340x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AL	40	0.49	3	150
3	<a href="#">VS-MBR340x-M3</a>	I	Plastic Axial <sup>(1)(3)(6)</sup>	DO-204AL	40	<b>0.49</b>	3	<b>150</b>
3	<a href="#">VS-MBR360x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	C-16	50-60	0.64	3	150
3	<a href="#">VS-MBR360x-M3</a>	I	Plastic Axial <sup>(1)(3)(6)</sup>	C-16	50-60	<b>0.64</b>	3	<b>150</b>
3	<a href="#">VS-15MQ040NPBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMA	40	0.43	2	150
3	<a href="#">VS-30BQ015-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMC	15	<b>0.30</b>	3	<b>125</b>
3	<a href="#">VS-30BQ015PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	15	0.30	3	125
3	<a href="#">VS-MBRS320PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	20	0.36	3	150
3	<a href="#">VS-30MQ040-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMA	40	<b>0.46</b>	3	<b>150</b>
3	<a href="#">VS-30BQ040-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMC	40	<b>0.43</b>	3	<b>150</b>
3	<a href="#">VS-30BQ040PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	40	0.43	3	150
3	<a href="#">VS-MBRS340PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	40	0.43	3	150
3	<a href="#">VS-30BQ060-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMC	60	<b>0.52</b>	3	<b>150</b>
3	<a href="#">VS-30BQ060PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	60	0.52	3	150
3	<a href="#">VS-30BQ100-M3</a>	I	Plastic SMD <sup>(1)(3)(6)</sup>	SMC	100	<b>0.62</b>	3	<b>175</b>
3	<a href="#">VS-30BQ100PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	100	0.62	3	175
3	<a href="#">VS-MBRS360PBF</a>	I	Plastic SMD <sup>(1)(3)(9)</sup>	SMC	50-60	0.61	3	150
3	<a href="#">VS-MBRD320xPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	20	0.49	3	150
3	<a href="#">VS-MBRD320x-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	20	<b>0.49</b>	3	<b>150</b>
3	<a href="#">VS-MBRD330xPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	30	0.49	3	150
3	<a href="#">VS-MBRD330x-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	30	<b>0.49</b>	3	<b>150</b>
3	<a href="#">VS-MBRD340xPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	40	0.49	3	150

Note:

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## Schottky Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

HPS GEN 2.x (Planar Technology), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>j</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
3	<a href="#">VS-MBRD340x-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	40	0.49	3	150
3.3	<a href="#">VS-31DQ04x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	C-16	30-40	0.51	3	150
<b>3.3</b>	<a href="#">VS-31DQ04x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>C-16</b>	<b>30-40</b>	<b>0.51</b>	<b>3</b>	<b>150</b>
3.3	<a href="#">VS-31DQ06x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	C-16	50-60	0.54	3	150
<b>3.3</b>	<a href="#">VS-31DQ06x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>C-16</b>	<b>50-60</b>	<b>0.54</b>	<b>3</b>	<b>150</b>
3.3	<a href="#">VS-31DQ10x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	C-16	90-100	0.69	3	150
<b>3.3</b>	<a href="#">VS-31DQ10x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>C-16</b>	<b>90-100</b>	<b>0.69</b>	<b>3</b>	<b>150</b>
3.5	<a href="#">VS-30WQ03FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	30	0.35	3	150
3.5	<a href="#">VS-30WQ04FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	40	0.49	3	150
<b>3.5</b>	<a href="#">VS-30WQ04FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>40</b>	<b>0.49</b>	<b>3</b>	<b>150</b>
3.5	<a href="#">VS-30WQ06FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	60	0.53	3	150
<b>3.5</b>	<a href="#">VS-30WQ06FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>60</b>	<b>0.53</b>	<b>3</b>	<b>150</b>
3.5	<a href="#">VS-30WQ10FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	100	0.63	3	150
<b>3.5</b>	<a href="#">VS-30WQ10FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>100</b>	<b>0.63</b>	<b>3</b>	<b>150</b>
<b>3.5</b>	<a href="#">VS-30WQ03FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>30</b>	<b>0.35</b>	<b>3</b>	<b>150</b>
5	<a href="#">VS-50SQ100x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AR	60-80-100	0.52	5	175
<b>5</b>	<a href="#">VS-50SQ100x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AR</b>	<b>60-80-100</b>	<b>0.52</b>	<b>5</b>	<b>175</b>
5.5	<a href="#">VS-50WQ03FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	30	0.35	5	150
<b>5.5</b>	<a href="#">VS-50WQ03FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>30</b>	<b>0.35</b>	<b>5</b>	<b>150</b>
5.5	<a href="#">VS-50WQ04FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	40	0.44	5	150
<b>5.5</b>	<a href="#">VS-50WQ04FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>40</b>	<b>0.44</b>	<b>5</b>	<b>150</b>
5.5	<a href="#">VS-50WQ06FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	60	0.54	5	150
<b>5.5</b>	<a href="#">VS-50WQ06FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>60</b>	<b>0.54</b>	<b>5</b>	<b>150</b>
5.5	<a href="#">VS-50WQ10FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	100	0.63	5	150
<b>5.5</b>	<a href="#">VS-50WQ10FNx-M3</a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>100</b>	<b>0.63</b>	<b>5</b>	<b>150</b>
6	<a href="#">VS-6CWQ03FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	30	0.46	6	150
<b>6</b>	<a href="#">VS-6CWQ03FNx-M3</a>	I	<b>Power Plastic SMD<sup>(2)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>30</b>	<b>0.46</b>	<b>6</b>	<b>150</b>
6	<a href="#">VS-6CWQ04FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	40	0.62	6	150
<b>6</b>	<a href="#">VS-6CWQ04FNx-M3</a>	I	<b>Power Plastic SMD<sup>(2)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>40</b>	<b>0.62</b>	<b>6</b>	<b>150</b>
6	<a href="#">VS-6CWQ06FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	60	0.65	3	150
<b>6</b>	<a href="#">VS-6CWQ06FNx-M3</a>	I	<b>Power Plastic SMD<sup>(2)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>60</b>	<b>0.65</b>	<b>3</b>	<b>150</b>
6	<a href="#">VS-6CWQ10FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	100	0.74	6	150
<b>6</b>	<a href="#">VS-6CWQ10FNx-M3</a>	I	<b>Power Plastic SMD<sup>(2)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>100</b>	<b>0.74</b>	<b>6</b>	<b>150</b>
6	<a href="#">VS-MBRD660CTxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	50-60	0.65	3	150

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HPS GEN 2.x (Planar Technology), continued

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			Family <sup>(3)</sup>	Type		(V)	(A)	
6	<a href="#">VS-MBRD660CTx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	50-60	0.65	3	150
6	<a href="#">VS-6TQ045SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.53	6	175
6	<a href="#">VS-6TQ045PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	35-40-45	0.53	6	175
6	<a href="#">VS-6TQ045-N3</a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	35-40-45	0.53	6	175
7.5	<a href="#">VS-MBRB745xPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.57	7.5	150
7.5	<a href="#">VS-MBR745PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	35-40-45	0.57	7.5	150
7.5	<a href="#">VS-MBR745-N3</a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	35-40-45	0.57	7.5	150
8	<a href="#">VS-80SQ045x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AR	30-35-40-45	0.44	8	175
8	<a href="#">VS-80SQ045x-M3</a>	I	Plastic Axial <sup>(1)(3)(6)</sup>	DO-204AR	30-35-40-45	0.44	8	175
8	<a href="#">VS-8TQ100SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	80-100	0.58	8	175
8	<a href="#">VS-8TQ100PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	60-80-100	0.69	8	175
8	<a href="#">VS-8TQ100-N3</a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	60-80-100	0.69	8	175
9	<a href="#">VS-95SQ015x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AR	15	0.30	9	125
9	<a href="#">VS-95SQ015x-M3</a>	I	Plastic Axial <sup>(1)(3)(6)</sup>	DO-204AR	15	0.30	9	125
9	<a href="#">VS-90SQ045x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AR	30-35-40-45	0.42	9	150
9	<a href="#">VS-90SQ045x-M3</a>	I	Plastic Axial <sup>(1)(3)(6)</sup>	DO-204AR	30-35-40-45	0.42	9	150
10	<a href="#">VS-10WQ045FNxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252AA (DPAK)	45	0.53	10	175
10	<a href="#">VS-10WQ045FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	45	0.53	10	175
10	<a href="#">VS-10CTQ150SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	0.86	5	175
10	<a href="#">VS-10TQ045SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.49	10	175
10	<a href="#">VS-MBRB1045xPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.57	10	150
10	<a href="#">VS-10CTQ150-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	150	0.86	5	175
10	<a href="#">VS-10CTQ150PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	150	0.86	5	175
10	<a href="#">VS-10CTQ150-N3</a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	150	0.86	5	175
10	<a href="#">VS-10TQ045PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	35-40-45	0.49	10	175
10	<a href="#">VS-10TQ045-N3</a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	35-40-45	0.49	10	175
10	<a href="#">VS-MBR1045PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	35-40-45	0.57	10	150
10	<a href="#">VS-MBR1045-N3</a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	35-40-45	0.57	10	150
12	<a href="#">VS-12CWQ03FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	30	0.49	6	150
12	<a href="#">VS-12CWQ03FNx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	30	0.49	6	150
12	<a href="#">VS-12CWQ04FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	40	0.64	6	150
12	<a href="#">VS-12CWQ04FNx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	40	0.64	6	150
12	<a href="#">VS-12CWQ06FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	60	0.72	6	150
12	<a href="#">VS-12CWQ06FNx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	60	0.72	6	150

Note:

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none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
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HPS GEN 2.x (Planar Technology), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>j</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
12	<a href="#">VS-12CWQ10FNxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(9)</sup>	TO-252AA (DPAK)	100	0.78	6	150
12	<a href="#">VS-12CWQ10FNx-M3</a>	I	<b>Power Plastic SMD<sup>(2)(3)(6)</sup></b>	<b>TO-252AA (DPAK)</b>	<b>100</b>	<b>0.78</b>	<b>6</b>	<b>150</b>
12	<a href="#">VS-12CTQ045SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.64	6	175
12	<a href="#">VS-12TQ045SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.50	15	150
12	<a href="#">VS-12CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	35-40-45	0.64	6	175
12	<a href="#">VS-12CTQ045-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>35-40-45</b>	<b>0.64</b>	<b>6</b>	<b>175</b>
12	<a href="#">VS-12TQ045PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	35-40-45	0.50	12	150
12	<a href="#">VS-12TQ045-N3</a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>35-40-45</b>	<b>0.50</b>	<b>12</b>	<b>150</b>
15	<a href="#">VS-150SQ045x</a>	I	Plastic Axial <sup>(1)(3)(9)</sup>	DO-204AR	30-35-40-45	0.64	15	150
15	<a href="#">VS-150SQ045x-M3</a>	I	<b>Plastic Axial<sup>(1)(3)(6)</sup></b>	<b>DO-204AR</b>	<b>30-35-40-45</b>	<b>0.64</b>	<b>15</b>	<b>150</b>
15	<a href="#">VS-15TQ060SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	60	0.56	15	150
15	<a href="#">VS-15CTQ045SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.65	7.5	150
15	<a href="#">VS-MBRB1545CTxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.72	7.5	150
15	<a href="#">VS-15CTQ045-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	35-40-45	0.65	7.5	150
15	<a href="#">VS-MBR1545CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	35-40-45	0.72	7.5	150
15	<a href="#">VS-15TQ060PBF</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	60	0.56	15	150
15	<a href="#">VS-15TQ060-N3</a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>60</b>	<b>0.56</b>	<b>15</b>	<b>150</b>
15	<a href="#">VS-15CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	35-40-45	0.65	7.5	150
15	<a href="#">VS-15CTQ045-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>35-40-45</b>	<b>0.65</b>	<b>7.5</b>	<b>150</b>
15	<a href="#">VS-MBR1545CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	35-40-45	0.72	7.5	150
15	<a href="#">VS-MBR1545CT-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>35-40-45</b>	<b>0.72</b>	<b>7.5</b>	<b>150</b>
16	<a href="#">VS-MBRB1645xPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.57	16	150
16	<a href="#">VS-16CTQ100SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	80-100	0.69	8	175
16	<a href="#">VS-MBRB1645-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	35-40-45	0.57	16	150
16	<a href="#">VS-16CTQ100-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	80-100	0.69	8	175
16	<a href="#">VS-MBR1645PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	35-40-45	0.57	16	150
16	<a href="#">VS-MBR1645-N3</a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>35-40-45</b>	<b>0.57</b>	<b>16</b>	<b>150</b>
18	<a href="#">VS-18TQ045PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	35-40-45-50	0.53	18	175
18	<a href="#">VS-18TQ045-N3</a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>35-40-45-50</b>	<b>0.53</b>	<b>18</b>	<b>175</b>
16	<a href="#">VS-16CTQ100PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	60-80-100	0.69	8	175
16	<a href="#">VS-16CTQ100-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>60-80-100</b>	<b>0.69</b>	<b>8</b>	<b>175</b>
18	<a href="#">VS-18TQ045SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.53	18	175
19	<a href="#">VS-19TQ015SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	15	0.32	19	125
19	<a href="#">VS-19TQ015PBF</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	15	0.32	19	125

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HPS GEN 2.x (Planar Technology), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>J</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
19	<a href="#">VS-19TQ015-N3</a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	<b>TO-220AC</b>	15	0.32	19	125
20	<a href="#">VS-20L15TSxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	15	0.33	20	125
20	<a href="#">VS-20CTQ150SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	0.77	10	175
20	<a href="#">VS-20CTQ045SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.68	10	175
20	<a href="#">VS-20TQ045SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.51	10	150
20	<a href="#">VS-MBRB2045CTxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.72	10	150
20	<a href="#">VS-MBRB20100CTxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	80-90-100	0.85	10	150
20	<a href="#">VS-20CTQ045-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	45	0.68	10	175
20	<a href="#">VS-20CTQ150-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	150	0.77	10	175
20	<a href="#">VS-MBR2045CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	35-40-45	0.72	10	150
20	<a href="#">VS-MBR20100CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	80-90-100	0.85	10	150
20	<a href="#">VS-20L15TPBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	15	0.33	20	125
<b>20</b>	<b><a href="#">VS-20L15T-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>15</b>	<b>0.33</b>	<b>20</b>	<b>125</b>
20	<a href="#">VS-20CTQ150PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	150	0.77	10	175
<b>20</b>	<b><a href="#">VS-20CTQ150-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>150</b>	<b>0.77</b>	<b>10</b>	<b>175</b>
20	<a href="#">VS-20CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	35-40-45	0.68	10	175
<b>20</b>	<b><a href="#">VS-20CTQ045-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>35-40-45</b>	<b>0.68</b>	<b>10</b>	<b>175</b>
20	<a href="#">VS-20TQ045PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	35-40-45	0.51	10	150
<b>20</b>	<b><a href="#">VS-20TQ045-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>35-40-45</b>	<b>0.51</b>	<b>10</b>	<b>150</b>
20	<a href="#">VS-MBR2045CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	35-40-45	0.72	10	150
<b>20</b>	<b><a href="#">VS-MBR2045CT-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>35-40-45</b>	<b>0.72</b>	<b>10</b>	<b>150</b>
<b>20</b>	<b><a href="#">VS-MBR20100CTK-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>60-80-100</b>	<b>0.65</b>	<b>10</b>	<b>175</b>
25	<a href="#">VS-25CTQ045SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	35-40-45	0.64	12.5	150
25	<a href="#">VS-MBRB2545CTxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.73	12.5	150
25	<a href="#">VS-MBR2545CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	35-40-45	0.73	12.5	150
25	<a href="#">VS-25CTQ045-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	35-40-45	0.64	12.5	150
25	<a href="#">VS-25CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	35-40-45	0.64	12.5	150
<b>25</b>	<b><a href="#">VS-25CTQ045-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>35-40-45</b>	<b>0.64</b>	<b>12.5</b>	<b>150</b>
25	<a href="#">VS-MBR2545CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	45	0.73	12.5	150
<b>25</b>	<b><a href="#">VS-MBR2545CT-N3</a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>45</b>	<b>0.73</b>	<b>12.5</b>	<b>150</b>
30	<a href="#">VS-32CTQ030SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	30	0.53	15	150
30	<a href="#">VS-MBRB3030CTLxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	30	0.51	15	150
30	<a href="#">VS-30CTQ045SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.70	15	175
30	<a href="#">VS-MBRB3045CTxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.72	15	150

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HPS GEN 2.x (Planar Technology), continued

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I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>j</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
30	<a href="#">VS-30CTQ060SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	60	0.71	15	150
30	<a href="#">VS-30CTQ100SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	80-100	0.82	15	175
30	<a href="#">VS-30L30CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	30	0.50	15	150
30	<a href="#">VS-32CTQ030-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	30	0.53	15	150
30	<a href="#">VS-30CTQ045-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	45	0.70	15	175
30	<a href="#">VS-MBR3045CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	45	0.72	15	150
30	<a href="#">VS-30CTQ060-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	60	0.71	15	150
30	<a href="#">VS-30CTQ100-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	80-100	0.82	15	175
30	<a href="#">VS-30L30CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	30	0.50	15	150
<b>30</b>	<b><a href="#">VS-30L30CT-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>30</b>	<b>0.50</b>	<b>15</b>	<b>150</b>
30	<a href="#">VS-MBR3045CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	45	0.72	15	150
<b>30</b>	<b><a href="#">VS-MBR3045CT-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>45</b>	<b>0.72</b>	<b>15</b>	<b>150</b>
30	<a href="#">VS-32CTQ030PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	25-30	0.53	15	150
<b>30</b>	<b><a href="#">VS-32CTQ030-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>25-30</b>	<b>0.53</b>	<b>15</b>	<b>150</b>
30	<a href="#">VS-30CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	35-40-45	0.70	15	175
30	<a href="#">VS-30CTQ045-N3</a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	35-40-45	0.70	15	175
30	<a href="#">VS-30CTQ060PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	50-60	0.71	15	150
<b>30</b>	<b><a href="#">VS-30CTQ060-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>50-60</b>	<b>0.71</b>	<b>15</b>	<b>150</b>
30	<a href="#">VS-30CTQ100PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-220AB	80-100	0.65	15	175
<b>30</b>	<b><a href="#">VS-30CTQ100-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>80-100</b>	<b>0.65</b>	<b>15</b>	<b>175</b>
30	<a href="#">VS-30CPQ150PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-247AC	150	0.93	15	175
<b>30</b>	<b><a href="#">VS-30CPQ150-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>150</b>	<b>0.93</b>	<b>15</b>	<b>175</b>
30	<a href="#">VS-30CPQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-247AC	35-40-45	0.64	15	150
<b>30</b>	<b><a href="#">VS-30CPQ045-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>35-40-45</b>	<b>0.64</b>	<b>15</b>	<b>150</b>
30	<a href="#">VS-MBR3045WTPBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-247AC	35-40-45	0.72	30	150
<b>30</b>	<b><a href="#">VS-MBR3045WT-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>35-40-45</b>	<b>0.72</b>	<b>30</b>	<b>150</b>
30	<a href="#">VS-30CPQ060PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-247AC	50-60	0.70	15	150
<b>30</b>	<b><a href="#">VS-30CPQ060-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>50-60</b>	<b>0.70</b>	<b>15</b>	<b>150</b>
30	<a href="#">VS-30CPQ100PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-247AC	80-90-100	0.81	15	175
<b>30</b>	<b><a href="#">VS-30CPQ100-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>80-90-100</b>	<b>0.81</b>	<b>15</b>	<b>175</b>
40	<a href="#">VS-40L15CTSxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	15	0.50	20	125
40	<a href="#">VS-47CTQ020SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	20	0.42	20	150
40	<a href="#">VS-42CTQ030SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	30	0.51	20	150
40	<a href="#">VS-40CTQ045SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.67	20	150

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TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
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# RECTIFIERS

## Schottky Rectifiers



HPS GEN 2.x (Planar Technology), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>J</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
40	<a href="#">VS-MBRB4045CTxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	45	0.75	20	150
40	<a href="#">VS-48CTQ060SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	60	0.75	20	150
40	<a href="#">VS-40CTQ150SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	150	0.85	20	175
40	<a href="#">VS-43CTQ100SxPBF</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	80-100	0.81	20	175
40	<a href="#">VS-40L15CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	15	0.50	20	125
40	<a href="#">VS-47CTQ020-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	20	0.42	20	150
40	<a href="#">VS-42CTQ030-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	30	0.51	20	150
40	<a href="#">VS-40CTQ045-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	45	0.67	20	150
40	<a href="#">VS-MBR4045CT-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	45	0.75	20	150
40	<a href="#">VS-48CTQ060-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	60	0.75	20	150
40	<a href="#">VS-40CTQ150-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	150	0.85	20	175
40	<a href="#">VS-43CTQ100-1PBF</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	80-100	0.81	20	175
40	<a href="#">VS-40L15CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	15	0.50	20	125
<b>40</b>	<b><a href="#">VS-40L15CT-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>15</b>	<b>0.5</b>	<b>20</b>	<b>125</b>
40	<a href="#">VS-47CTQ020PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	20	0.42	20	150
<b>40</b>	<b><a href="#">VS-47CTQ020-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>20</b>	<b>0.42</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-42CTQ030PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	30	0.51	20	150
<b>40</b>	<b><a href="#">VS-42CTQ030-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>30</b>	<b>0.51</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-40CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	45	0.67	20	150
<b>40</b>	<b><a href="#">VS-40CTQ045-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>45</b>	<b>0.67</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-MBR4045CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AC	45	0.75	20	150
<b>40</b>	<b><a href="#">VS-MBR4045CT-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AC</b>	<b>45</b>	<b>0.75</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-48CTQ060PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	60	0.75	20	150
<b>40</b>	<b><a href="#">VS-48CTQ060-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>60</b>	<b>0.75</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-43CTQ100PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.81	20	175
<b>40</b>	<b><a href="#">VS-43CTQ100-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>100</b>	<b>0.81</b>	<b>20</b>	<b>175</b>
40	<a href="#">VS-40CTQ150PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	150	0.85	20	175
<b>40</b>	<b><a href="#">VS-40CTQ150-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>150</b>	<b>0.85</b>	<b>20</b>	<b>175</b>
40	<a href="#">VS-40L15CWPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	15	0.50	40	125
<b>40</b>	<b><a href="#">VS-40L15CW-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>15</b>	<b>0.50</b>	<b>40</b>	<b>125</b>
40	<a href="#">VS-MBR40L15CWPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	15	0.50	20	125
<b>40</b>	<b><a href="#">VS-MBR40L15CW-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>15</b>	<b>0.50</b>	<b>20</b>	<b>125</b>
40	<a href="#">VS-40L40CWPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	40	0.70	20	150
<b>40</b>	<b><a href="#">VS-40L40CW-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>40</b>	<b>0.70</b>	<b>20</b>	<b>150</b>

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# RECTIFIERS

## Schottky Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

HPS GEN 2.x (Planar Technology), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>j</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
40	<a href="#">VS-40L45CWPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	45	0.70	20	150
40	<a href="#">VS-40L45CW-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>45</b>	<b>0.70</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-MBR4045WTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	45	0.72	40	150
40	<a href="#">VS-MBR4045WT-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>45</b>	<b>0.72</b>	<b>40</b>	<b>150</b>
40	<a href="#">VS-MBR4060WTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	60	0.62	40	150
40	<a href="#">VS-MBR4060WT-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>60</b>	<b>0.62</b>	<b>40</b>	<b>150</b>
40	<a href="#">VS-40CPQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	35-40-45	0.56	20	150
40	<a href="#">VS-40CPQ045-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>35-40-45</b>	<b>0.56</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-40CPQ060PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	50-60	0.64	20	150
40	<a href="#">VS-40CPQ060-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>50-60</b>	<b>0.64</b>	<b>20</b>	<b>150</b>
40	<a href="#">VS-40CPQ100PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	80-100	0.75	20	175
40	<a href="#">VS-40CPQ100-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>80-100</b>	<b>0.75</b>	<b>20</b>	<b>175</b>
50	<a href="#">VS-52CPQ030PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	30	0.49	25	150
50	<a href="#">VS-52CPQ030-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>30</b>	<b>0.49</b>	<b>25</b>	<b>150</b>
60	<a href="#">VS-62CTQ030PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AC	30	0.59	30	150
60	<a href="#">VS-62CTQ030-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AC</b>	<b>30</b>	<b>0.59</b>	<b>30</b>	<b>150</b>
60	<a href="#">VS-63CTQ100PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	100	0.83	30	175
60	<a href="#">VS-63CTQ100-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>100</b>	<b>0.83</b>	<b>30</b>	<b>175</b>
60	<a href="#">VS-60CTQ150PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	150	0.87	30	175
60	<a href="#">VS-60CTQ150-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>150</b>	<b>0.87</b>	<b>30</b>	<b>175</b>
60	<a href="#">VS-60CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AC	35-40-45	0.75	30	150
60	<a href="#">VS-60CTQ045-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AC</b>	<b>35-40-45</b>	<b>0.75</b>	<b>30</b>	<b>150</b>
60	<a href="#">VS-61CTQ045PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AC	35-40-45	0.74	30	175
60	<a href="#">VS-61CTQ045-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AC</b>	<b>35-40-45</b>	<b>0.74</b>	<b>30</b>	<b>175</b>
60	<a href="#">VS-MBR6045WTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	45	0.55	30	150
60	<a href="#">VS-MBR6045WT-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>45</b>	<b>0.55</b>	<b>30</b>	<b>150</b>
60	<a href="#">VS-63CPQ100PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	100	0.76	30	175
60	<a href="#">VS-63CPQ100-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>100</b>	<b>0.76</b>	<b>30</b>	<b>175</b>
60	<a href="#">VS-60CPQ150PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	150	0.77	30	175
60	<a href="#">VS-60CPQ150-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>150</b>	<b>0.77</b>	<b>30</b>	<b>175</b>
65	<a href="#">VS-65PQ015PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	15	0.46	65	125
65	<a href="#">VS-65PQ015-N3</a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>15</b>	<b>0.46</b>	<b>65</b>	<b>125</b>
70	<a href="#">VS.72CPQ030PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	30	0.58	35	150
70	<a href="#">VS.72CPQ030-N3</a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>30</b>	<b>0.58</b>	<b>35</b>	<b>150</b>

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## Schottky Rectifiers



HPS GEN 2.x (Planar Technology), continued

Rectifiers - Worldwide Leader in Power Rectifiers

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>J</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
80	<a href="#">VS-80CPQ020PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	20	0.46	40	150
<b>80</b>	<b><a href="#">VS-80CPQ020-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>20</b>	<b>0.46</b>	<b>40</b>	<b>150</b>
80	<a href="#">VS-80CPQ150PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	150	0.85	40	175
<b>80</b>	<b><a href="#">VS-80CPQ150-N3</a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>150</b>	<b>0.85</b>	<b>40</b>	<b>175</b>
80	<a href="#">VS-85CNQ015APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	15	0.42	40	125
80	<a href="#">VS-87CNQ020APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	20	0.39	40	150
80	<a href="#">VS-82CNQ030APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	30	0.47	40	150
80	<a href="#">VS-88CNQ060APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	60	0.67	40	150
80	<a href="#">VS-80CNQ045APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	40-45	0.61	40	150
80	<a href="#">VS-81CNQ045APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	40-45	0.66	40	175
80	<a href="#">VS-83CNQ100APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	80-100	0.82	40	175
80	<a href="#">VS-85CNQ015ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	15	0.42	40	125
80	<a href="#">VS-87CNQ020ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	20	0.39	40	150
80	<a href="#">VS-82CNQ030ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	30	0.47	40	150
80	<a href="#">VS-88CNQ060ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	60	0.67	40	150
80	<a href="#">VS-80CNQ045ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	35-40-45	0.61	40	150
80	<a href="#">VS-81CNQ045ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	35-40-45	0.66	40	175
80	<a href="#">VS-83CNQ100ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	80-100	0.82	40	175
80	<a href="#">VS-85CNQ015ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	15	0.42	40	125
80	<a href="#">VS-87CNQ020ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	20	0.39	40	150
80	<a href="#">VS-82CNQ030ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	30	0.47	40	150
80	<a href="#">VS-88CNQ060ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	60	0.67	40	150
80	<a href="#">VS-80CNQ045ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	35-40-45	0.61	40	150
80	<a href="#">VS-81CNQ045ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	35-40-45	0.66	40	175
80	<a href="#">VS-83CNQ100ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	80-100	0.82	40	175
100	<a href="#">VS-100BGQ015</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	PowerTab™	15	0.42	100	125
100	<a href="#">VS-100BGQ030</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	PowerTab™	30	0.51	100	150
100	<a href="#">VS-100BGQ045</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	PowerTab™	45	0.68	100	150
100	<a href="#">VS-100BGQ100</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	PowerTab™	100	0.77	100	175
110	<a href="#">VS-115CNQ015APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	15	0.43	55	125
110	<a href="#">VS-112CNQ030APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	30	0.51	55	150
110	<a href="#">VS-110CNQ045APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	45	0.69	55	150
110	<a href="#">VS-111CNQ045APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	45	0.69	55	175
110	<a href="#">VS-113CNQ100APBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8	100	0.79	33	175

Note:

1. Singled die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented

4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free mould compound and RoHs Compliant
7. Halogen free mould compound and RoHs compliant and totally lead free
8. RoHs compliant and totally lead free
9. RoHs compliant



# RECTIFIERS

## Schottky Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

HPS GEN 2.x (Planar Technology), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>J</sub> Max (°C)
			Family <sup>(3)</sup>	Type		(V)	(A)	
110	<a href="#">VS-115CNQ015ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	15	0.43	55	125
110	<a href="#">VS-112CNQ030ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	30	0.51	55	150
110	<a href="#">VS-111CNQ045ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	45	0.69	55	175
110	<a href="#">VS-113CNQ100ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	100	0.79	55	175
110	<a href="#">VS-110CNQ045ASLPBF</a>	I	Power Plastic Through Hole <sup>(2)(9)</sup>	D61-8-SL	40-45	0.69	55	150
110	<a href="#">VS-115CNQ015ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	15	0.43	55	125
110	<a href="#">VS-112CNQ030ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	30	0.51	55	150
110	<a href="#">VS-110CNQ045ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	45	0.69	55	150
110	<a href="#">VS-111CNQ045ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	45	0.69	55	175
110	<a href="#">VS-113CNQ100ASMPBF</a>	I	Power Plastic SMD <sup>(2)(9)</sup>	D61-8-SM	100	0.79	55	175
175	<a href="#">VS-175BGQ030</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	PowerTab™	30	0.49	175	150
175	<a href="#">VS-175BGQ045</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	PowerTab™	45	0.64	175	150

Note:

- 1. Singled die device
- 2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
- 3. x designates tube or tape&reel version on SMD products  
 none = tube  
 TR = tape and reel centered (for DPAK only)  
 TRL = tape and reel left oriented  
 TRR = tape and reel right oriented
- 4. Source: I = formerly International Rectifier Diode unit
- 5. Bold text indicates new product
- 6. Halogen free mould compound and RoHs Compliant
- 7. Halogen free mould compound and RoHs compliant and totally lead free
- 8. RoHs compliant and totally lead free
- 9. RoHs compliant



# RECTIFIERS

## Ultrafast Recovery Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

**Ultrafast Recovery Rectifiers** have very fast reverse recovery times (as low as 15 ns) and voltage levels as high as 1500 V. They are ideally suited for very high frequency switching power supplies, inverters, and freewheeling diodes. Both platinum-doped types with excellent high-temperature leakage current and gold-doped types for soft reverse recovery with excellent recovery temperature stability are offered.

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>rr</sub> (ns)
		Family <sup>(3)</sup>	Type		(V)	(A)	
0.6	<a href="#">UG06A to UG06D</a>	Plastic Axial <sup>(2)</sup>	MPG06	50 - 200	0.95	0.6	15
1.0	<a href="#">ES1A to ES1D</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	50 - 200	0.92	1.0	15
<b>1.0</b>	<b><a href="#">ES1PB, ES1PC and ES1PD</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-220AA (SMP)</b>	<b>100 - 200</b>	<b>0.865 / 0.92</b>	<b>0.6 / 1.0</b>	<b>15</b>
1.0	<a href="#">ESH1B, ESH1C and ESH1D</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	100 - 200	0.87 / 0.90	0.7 / 1.0	25
<b>1.0</b>	<b><a href="#">ESH1PB, ESH1PC and ESH1PD</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-220AA (SMP)</b>	<b>100 - 200</b>	<b>0.86 / 0.90</b>	<b>0.7 / 1.0</b>	<b>25</b>
<b>1.0</b>	<b><a href="#">MUH1PB, MUH1PC and MUH1PD</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>Micro SMP</b>	<b>100 - 200</b>	<b>1.05</b>	<b>1.0</b>	<b>25</b>
1.0	<a href="#">MUR120</a>	Plastic Axial <sup>(2)</sup>	DO-204AC (DO-15)	200	0.88	1.0	25
1.0	<a href="#">MUR140 and MUR160</a>	Plastic Axial <sup>(2)</sup>	DO-204AC (DO-15)	400 - 600	1.25	1.0	50
1.0	<a href="#">MURS120</a>	Plastic SMD <sup>(2)</sup>	DO-214AA (SMB)	200	0.88	1.0	25
1.0	<a href="#">MURS140 and MURS160</a>	Plastic SMD <sup>(2)</sup>	DO-214AA (SMB)	400 - 600	1.25	1.0	50
<b>1.0</b>	<b><a href="#">U1B, U1C and U1D</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>DO-214AC (SMA)</b>	<b>100 - 200</b>	<b>0.92</b>	<b>1.0</b>	<b>15</b>
1.0	UF4001 to UF4007	Plastic Axial <sup>(2)</sup>	DO-204AL (DO-41)	50 - 1000	1.0 / 1.7	1.0	50 / 75
1.0	<a href="#">UG1A to UG1D</a>	Plastic Axial <sup>(2)</sup>	DO-204AL (DO-41)	50 - 200	0.95	1.0	15
<b>1.0</b>	<b><a href="#">UH1B, UH1C and UH1D</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>DO-214AC (SMA)</b>	<b>100 - 200</b>	<b>1.05</b>	<b>1.0</b>	<b>25</b>
<b>1.0</b>	<b><a href="#">UH1PB, UH1PC and UH1PD</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>DO-220AA (SMP)</b>	<b>100 - 200</b>	<b>1.05</b>	<b>1.0</b>	<b>25</b>
1.0	<a href="#">US1A to US1M</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	50 - 1000	1.0 / 1.7	1.0	50 / 75
1.2	<a href="#">ES07B</a>	Plastic SMD <sup>(2)</sup>	DO-219AB (SMF)	100	0.98	1.0	25
1.2	<a href="#">ES07D</a>	Plastic SMD <sup>(2)</sup>	DO-219AB (SMF)	200	0.98	1.0	25
1.5	<a href="#">BYG20D to BYG20J</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	200 - 600	1.30	1.0	75
1.5	<a href="#">BYG23M</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	1000	1.70	1.0	75
2.0	<a href="#">BYG22A to BYG22D</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	50 - 200	1.10	2.0	25
2.0	<a href="#">ES2A to ES2D</a>	Plastic SMD <sup>(2)</sup>	DO-214AA (SMB)	50 - 200	0.90	2.0	20
2.0	<a href="#">ES2F and ES2G</a>	Plastic SMD <sup>(2)</sup>	DO-214AA (SMB)	300 - 400	1.10	2.0	35
2.0	<a href="#">ESH2B, ESH2C and ESH2D</a>	Plastic SMD <sup>(2)</sup>	DO-214AA (SMB)	100 - 200	0.93	2.0	25
<b>2.0</b>	<b><a href="#">ESH2PB, ESH2PC and ESH2PD</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-220AA (SMP)</b>	<b>100 - 200</b>	<b>0.98</b>	<b>2.0</b>	<b>25</b>
<b>2.0</b>	<b><a href="#">MURS240 and MURS260</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-214AA (SMB)</b>	<b>400 - 600</b>	<b>1.45</b>	<b>2.0</b>	<b>50</b>
2.0	<a href="#">SBYV27-50 to SBYV27-200</a>	Plastic Axial <sup>(2)</sup>	DO-204AC (DO-15)	50 - 200	1.07	3.0	15
<b>2.0</b>	<b><a href="#">U2B, U2C and U2D</a></b>	<b>Plastic Axial<sup>(4)</sup></b>	<b>DO-214AA (SMB)</b>	<b>100 - 200</b>	<b>0.90</b>	<b>2.0</b>	<b>20</b>
2.0	<a href="#">UG2A to UG2D</a>	Plastic Axial <sup>(2)</sup>	DO-204AC (DO-15)	50 - 200	0.95	2.0	15
2.0	<a href="#">UG2F and UG2G</a>	Plastic Axial <sup>(2)</sup>	DO-204AC (DO-15)	300 - 400	1.10	2.0	35
<b>2.0</b>	<b><a href="#">UH2B, UH2C and UH2D</a></b>	<b>Plastic Axial<sup>(4)</sup></b>	<b>DO-214AA (SMB)</b>	<b>100 - 200</b>	<b>1.05</b>	<b>2.0</b>	<b>25</b>
<b>2.0</b>	<b><a href="#">USB260</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-214AA (SMB)</b>	<b>600</b>	<b>1.60</b>	<b>2.0</b>	<b>30</b>
3.0	<a href="#">31GF4</a>	Plastic Axial <sup>(2)</sup>	DO-201AD	400	1.25	3.0	30
3.0	<a href="#">31GF6</a>	Plastic Axial <sup>(2)</sup>	DO-201AD	600	1.60	3.0	30

Note:

1. Bold text indicates new product
2. Glass passivated die

3. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
4. Oxide planar die





# RECTIFIERS

## Ultrafast Recovery Rectifiers



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Ultrafast Recovery Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>rr</sub> (ns)
		Family <sup>(3)</sup>	Type		(V)	(A)	
3.0	<a href="#">ES3A to ES3D</a>	Plastic SMD <sup>(2)</sup>	DO-214AB (SMC)	50 - 200	0.90	3.0	20
3.0	<a href="#">ES3F and ES3G</a>	Plastic SMD <sup>(2)</sup>	DO-214AB (SMC)	300 - 400	1.10	3.0	35
3.0	<a href="#">ESH3B, ESH3C and ESH3D</a>	Plastic SMD <sup>(2)</sup>	DO-214AB (SMC)	100 - 200	0.90	3.0	25
3.0	<a href="#">MURS320</a>	Plastic SMD <sup>(2)</sup>	DO-214AB (SMC)	200	0.88	3.0	25
3.0	<a href="#">MURS340 and MURS360</a>	Plastic SMD <sup>(2)</sup>	DO-214AB (SMC)	400 & 600	1.25 / 1.28	3.0 / 4.0	50
<b>3.0</b>	<b><a href="#">MURS340S and MURS360S</a></b>	<b>Plastic Axial<sup>(2)</sup></b>	<b>DO-214AA (SMB)</b>	<b>400 &amp; 600</b>	<b>1.45</b>	<b>3.0</b>	<b>50</b>
<b>3.0</b>	<b><a href="#">U3B, U3C and U3D</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>DO-214AB (SMC)</b>	<b>100 - 200</b>	<b>0.90</b>	<b>3.0</b>	<b>20</b>
3.0	<a href="#">UF5400 to UF5408</a>	Plastic Axial <sup>(2)</sup>	DO-201AD	50 - 1000	1.0 / 1.7	3.0	50 / 75
<b>3.0</b>	<b><a href="#">UH3B, UH3C and UH3D</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>DO-214AB (SMC)</b>	<b>100 - 200</b>	<b>1.05</b>	<b>3.0</b>	<b>25</b>
3.5	<a href="#">SBYV28-50 to SBYV28-200</a>	Plastic Axial <sup>(2)</sup>	DO-201AD	50 - 200	1.10	3.5	20
4.0	<a href="#">MUR420</a>	Plastic Axial <sup>(2)</sup>	DO-201AD	200	0.89	4.0	25
4.0	<a href="#">MUR440 and MUR460</a>	Plastic Axial <sup>(2)</sup>	DO-201AD	400 - 600	1.28	4.0	50
<b>4.0</b>	<b><a href="#">UH4PBC, UH4PCC and UH4PDC</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>TO-277A (SMPC)</b>	<b>100 - 200</b>	<b>1.05</b>	<b>2.0</b>	<b>25</b>
4.0	<a href="#">UG4A to UG4D</a>	Plastic Axial <sup>(2)</sup>	DO-201AD	50 - 200	0.95	4.0	20
5.0	<a href="#">GUR5H60</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	600	1.80	5.0	30
5.0	<a href="#">GURB5H60</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.80	5.0	30
5.0	<a href="#">GURF5H60</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	600	1.80	5.0	30
5.0	<a href="#">UG5HT and UG5JT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	500 - 600	1.75	5.0	25
5.0	<a href="#">UGB5HT and UGB5JT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	500 - 600	1.75	5.0	25
5.0	<a href="#">UGF5HT and UGF5JT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	500 - 600	1.75	5.0	25
6.0	<a href="#">FEP6AT to FEP6DT</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	50 - 200	0.98	3.0	35
6.0	<a href="#">FEPB6AT to FEPB6DT</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 200	0.98	3.0	35
6.0	<a href="#">FEPF6AT to FEPF6DT</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	50 - 200	0.98	3.0	35
<b>6.0</b>	<b><a href="#">UH6PD</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>TO-277A (SMPC)</b>	<b>200</b>	<b>1.05</b>	<b>6.0</b>	<b>25</b>
<b>6.0</b>	<b><a href="#">UH6PJ</a></b>	<b>Plastic SMD<sup>(4)</sup></b>	<b>TO-277A (SMPC)</b>	<b>600</b>	<b>3.0</b>	<b>6.0</b>	<b>25</b>
8.0	<a href="#">BYV29-300 and BYV29-400</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	300 - 400	1.25	8.0	35
8.0	<a href="#">BYV29B-300 and BYV29B-400</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	300 - 400	1.25	8.0	35
8.0	<a href="#">BYV29F-300 and BYV29F-400</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	300 - 400	1.25	8.0	35
8.0	<a href="#">BYW29-50 to BYW29-200</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	50 - 200	1.30	20	25
8.0	<a href="#">BYWB29-50 to BYWB29-200</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 200	1.30	20	25
8.0	<a href="#">BYWF29-50 to BYWF29-200</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	50 - 200	1.30	20	25
8.0	FES8AT to FES8JT	Plastic Power Pack <sup>(2)</sup>	TO-220AC	50 - 600	0.95 / 1.3 / 1.5	8.0	35 / 50
8.0	<a href="#">FESB8AT to FESB8JT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 600	0.95 / 1.3 / 1.5	8.0	35 / 50
8.0	FESF8AT to FESF8JT	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	50 - 600	0.95 / 1.3 / 1.5	8.0	35 / 50
<b>8.0</b>	<b><a href="#">U8BT to U8DT</a></b>	<b>Plastic Power Pack<sup>(4)</sup></b>	<b>TO-220AC</b>	<b>100 - 200</b>	<b>1.02</b>	<b>8.0</b>	<b>20</b>
<b>8.0</b>	<b><a href="#">UF8BT to UF8DT</a></b>	<b>Isolated Power Pack<sup>(4)</sup></b>	<b>ITO-220AC</b>	<b>100 - 200</b>	<b>1.02</b>	<b>8.0</b>	<b>20</b>
<b>8.0</b>	<b><a href="#">UB8BT to UB8DT</a></b>	<b>Power Pack SMD<sup>(4)</sup></b>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	<b>100 - 200</b>	<b>1.02</b>	<b>8.0</b>	<b>20</b>

Note:

1. Bold text indicates new product
2. Glass passivated die

3. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
4. Oxide planar die



# RECTIFIERS

## Ultrafast Recovery Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

Ultrafast Recovery Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>rr</sub> (ns)
		Family <sup>(3)</sup>	Type		(V)	(A)	
8.0	<a href="#">GI1401 to GI1404</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	50 - 200	0.98	8.0	35
8.0	<a href="#">GIB1401 to GIB1404</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 200	0.98	8.0	35
8.0	<a href="#">UG8AT to UG8DT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	50 - 200	1.00	8.0	20
8.0	<a href="#">UGB8AT to UGB8DT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 200	1.00	8.0	20
8.0	<a href="#">UGF8AT to UGF8DT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	50 - 200	1.00	8.0	20
8.0	<a href="#">UG8FT and UG8GT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	300 - 400	1.25	8.0	35
8.0	<a href="#">UGB8FT and UGB8GT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	300 - 400	1.25	8.0	35
8.0	<a href="#">UGF8FT and UGF8GT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	300 - 400	1.25	8.0	35
8.0	<a href="#">UG8HT and UG8JT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	500 - 600	1.75	8.0	25
8.0	<a href="#">UGB8HT and UGB8JT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	500 - 600	1.75	8.0	25
8.0	<a href="#">UGF8HT and UGF8JT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	500 - 600	1.75	8.0	25
8.0	<a href="#">UG8HCT and UG8JCT</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	500 - 600	1.75	4.0	25
8.0	<a href="#">UGB8HCT and UGB8JCT</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	500 - 600	1.75	4.0	25
8.0	<a href="#">UGF8HCT and UGF8JCT</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	500 - 600	1.75	4.0	25
10	<a href="#">BYQ28E-100 to BYQ28E-200</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-220AB	100 - 200	1.10	5.0	20
10	<a href="#">BYQ28EB-100 to BYQ28EB-200</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	100 - 200	1.10	5.0	20
10	<a href="#">BYQ28EF-100 to BYQ28EF-200</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	100 - 200	1.10	5.0	20
10	<a href="#">BYT28-300 and BYT28-400</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	300 - 400	1.30	5.0	35
10	<a href="#">BYT28B-300 and BYT28B-400</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	300 - 400	1.30	5.0	35
10	<a href="#">BYT28F-300 and BYT28F-400</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	300 - 400	1.30	5.0	35
10	<a href="#">UG10BCT to UG10DCT</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	100 - 200	1.10	5.0	20
10	<a href="#">UGB10BCT to UGB10DCT</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	100 - 200	1.10	5.0	20
10	<a href="#">UGF10BCT to UGF10DCT</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	100 - 200	1.10	5.0	20
10	<a href="#">UG10FCT and UG10GCT</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	300 - 400	1.30	5.0	35
10	<a href="#">UGB10FCT and UGB10GCT</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	300 - 400	1.30	5.0	35
10	<a href="#">UGF10FCT and UGF10GCT</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	300 - 400	1.30	5.0	35
<b>10</b>	<b><a href="#">UH10FT</a></b>	<b>Plastic Power Pack<sup>(4)</sup></b>	<b>TO-220AC</b>	<b>300</b>	<b>1.2</b>	<b>10</b>	<b>25</b>
<b>10</b>	<b><a href="#">UHB10FT</a></b>	<b>Power Pack SMD<sup>(4)</sup></b>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	<b>300</b>	<b>1.2</b>	<b>10</b>	<b>25</b>
<b>10</b>	<b><a href="#">U10BCT to U10DCT</a></b>	<b>Plastic Power Pack<sup>(3)(4)</sup></b>	<b>TO-220AB</b>	<b>100 - 200</b>	<b>1.10</b>	<b>5.0</b>	<b>20</b>
<b>10</b>	<b><a href="#">UB10BCT to UB10DCT</a></b>	<b>Power Pack SMD<sup>(3)(4)</sup></b>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	<b>100 - 200</b>	<b>1.10</b>	<b>5.0</b>	<b>20</b>
<b>10</b>	<b><a href="#">UF10BCT to UF10DCT</a></b>	<b>Isolated Power Pack<sup>(3)(4)</sup></b>	<b>ITO-220AB</b>	<b>100 - 200</b>	<b>1.10</b>	<b>5.0</b>	<b>20</b>
12	<a href="#">UG12HT and UG12JT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	500 - 600	1.75	12	30
12	<a href="#">UGB12HT and UGB12JT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	500 - 600	1.75	12	30
12	<a href="#">UGF12HT and UGF12JT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	500 - 600	1.75	12	30
15	<a href="#">UG15HT and UG15JT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	500 - 600	1.75	15	35
15	<a href="#">UGB15HT and UGB15JT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	500 - 600	1.75	15	35
15	<a href="#">UGF15HT and UGF15JT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	500 - 600	1.75	15	35

Note:

1. Bold text indicates new product
2. Glass passivated die

3. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
4. Oxide planar die



**RECTIFIERS**

**Ultrafast Recovery Rectifiers**



Rectifiers - Worldwide Leader in Power Rectifiers

Ultrafast Recovery Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		T <sub>rr</sub> (ns)
		Family <sup>(3)</sup>	Type		(V)	(A)	
16	<a href="#">FEP16AT to FEP16JT</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	50 - 600	0.95 / 1.30 / 1.50	8	35 / 50
16	<a href="#">FEPB16AT to FEPB16JT</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 600	0.95 / 1.30 / 1.50	8	35 / 50
16	<a href="#">FEPF16AT to FEPF16JT</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	50 - 600	0.95 / 1.30 / 1.50	8	35 / 50
16	<a href="#">FES16AT to FES16JT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	50 - 600	0.975 / 1.30 / 1.50	16	35 / 50
16	<a href="#">FESB16AT to FESB16JT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 600	0.975 / 1.30 / 1.50	16	35 / 50
16	<a href="#">FESF16AT to FESF16JT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	50 - 600	0.975 / 1.30 / 1.50	16	35 / 50
16	<a href="#">GI2401 to GI2404</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	50 - 200	0.98	8.0	35
16	<a href="#">GIB2401 to GIB2404</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 200	0.98	8.0	35
<b>16</b>	<b><a href="#">U16BCT to U16DCT</a></b>	<b>Plastic Power Pack<sup>(3)(4)</sup></b>	<b>TO-220AB</b>	<b>100 - 200</b>	<b>1.10</b>	<b>8.0</b>	<b>35</b>
<b>16</b>	<b><a href="#">UB16BCT to UB16DCT</a></b>	<b>Power Pack SMD<sup>(3)(4)</sup></b>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	<b>100 - 200</b>	<b>1.10</b>	<b>8.0</b>	<b>35</b>
18	<a href="#">BYV32-50 to BYV32-200</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	50 - 200	1.15	20	25
18	<a href="#">BYVB32-50 to BYVB32-200</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 200	1.15	20	25
18	<a href="#">BYVF32-50 to BYVF32-200</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	50 - 200	1.15	20	25
18	<a href="#">UG18ACT to UG18DCT</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-220AB	50 - 200	1.10	9.0	20
18	<a href="#">UGB18ACT to UGB18DCT</a>	Power Pack SMD <sup>(2)(3)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 - 200	1.10	9.0	20
18	<a href="#">UGF18ACT to UGF18DCT</a>	Isolated Power Pack <sup>(2)(3)</sup>	ITO-220AB	50 - 200	1.10	9.0	20
<b>20</b>	<b><a href="#">U20BCT to U20DCT</a></b>	<b>Plastic Power Pack<sup>(3)(4)</sup></b>	<b>TO-220AB</b>	<b>100 - 200</b>	<b>1.00</b>	<b>10</b>	<b>35</b>
<b>20</b>	<b><a href="#">UB20BCT to UB20DCT</a></b>	<b>Power Pack SMD<sup>(3)(4)</sup></b>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	<b>100 - 200</b>	<b>1.00</b>	<b>10</b>	<b>35</b>
<b>20</b>	<b><a href="#">UH20FCT</a></b>	<b>Plastic Power Pack<sup>(3)(4)</sup></b>	<b>TO-220AB</b>	<b>300</b>	<b>1.2</b>	<b>10</b>	<b>25</b>
<b>20</b>	<b><a href="#">UHB20FCT</a></b>	<b>Power Pack SMD<sup>(3)(4)</sup></b>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	<b>300</b>	<b>1.2</b>	<b>10</b>	<b>25</b>
<b>20</b>	<b><a href="#">UHF20FCT</a></b>	<b>Isolated Power Pack<sup>(3)(4)</sup></b>	<b>ITO-220AB</b>	<b>300</b>	<b>1.2</b>	<b>10</b>	<b>25</b>
30	<a href="#">FEP30AP to FEP30JP</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-247AD	50 - 600	0.95 / 1.3 / 1.5	15	35 / 50
<b>30</b>	<b><a href="#">U30BCT to U30DCT</a></b>	<b>Plastic Power Pack<sup>(3)(4)</sup></b>	<b>TO-220AB</b>	<b>100 - 200</b>	<b>1.05</b>	<b>15</b>	<b>25</b>
<b>30</b>	<b><a href="#">UB30BCT to UB30DCT</a></b>	<b>Power Pack SMD<sup>(3)(4)</sup></b>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	<b>100 - 200</b>	<b>1.05</b>	<b>15</b>	<b>25</b>
30	<a href="#">UG30APT to UG30DPT</a>	Plastic Power Pack <sup>(2)(3)</sup>	TO-247AD	50 - 200	1.00	15	25

Note:

1. Bold text indicates new product
2. Glass passivated die

3. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
4. Oxide planar die

**FRED Pt® (Fast Recovery Epitaxial Diodes)**

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>rr</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
4	<a href="#">VS-4EWH02FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	200	0.95	4	20	4 A, 200 A/us, 160 V	20 at R.T.	
5	<a href="#">VS-5EWH06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	1.85	5	21	5 A, 200 A/us, 390 V	33 at R.T.	
5	<a href="#">VS-5EWL06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	1.25	5	154	5 A, 200 A/us, 390 V	826 at R.T.	
5	<a href="#">VS-5EWX06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	2.90	5	16	5 A, 200 A/us, 390 V	19 at R.T.	
6	<a href="#">VS-6CWH02FNx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	200	1.00	3	19	3 A, 200 A/us, 160 V	60 at R.T.	
6	<a href="#">VS-MURD620CTx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	200	1.2	6	19	3 A, 200 A/us, 160 V	60	
6	<a href="#">VS-6EWH06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	2.10	6	21	6 A, 200 A/us, 390 V	33 at R.T.	
6	<a href="#">VS-6EWL06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	1.35	6	173	6 A, 200 A/us, 390 V	988 at R.T.	
6	<a href="#">VS-6EWX06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	3.10	6	16	6 A, 200 A/us, 390 V	19 at R.T.	
8	<a href="#">VS-8S2TH06I-M</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	ITO-220AC	600	3.1	8	11	8 A, 200 A/us, 390 V	35	
8	<a href="#">VS-MUR820PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.	
8	<a href="#">VS-MUR820-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.	
8	<a href="#">VS-8ETH03PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	300	1.25	8	27	8 A, 200 A/us, 200 V	106	
8	<a href="#">VS-8ETH03-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	300	1.25	8	27	8 A, 200 A/us, 200 V	106	
8	<a href="#">VS-8ETU04PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
8	<a href="#">VS-8ETU04-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
8	<a href="#">VS-8ETH06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	2.4	8	25	8 A, 200 A/us, 400 V	120	
8	<a href="#">VS-ETH0806-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	2.65	8	21	8 A, 200 A/us, 400 V	110	
8	<a href="#">VS-8ETH06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	600	2.4	8	25	8 A, 200 A/us, 400 V	120	
8	<a href="#">VS-8ETL06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	1.05	8	170	8 A, 200 A/us, 400 V	2200	
8	<a href="#">VS-ETL0806-M3</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	1.05	8	170	8 A, 200 A/us, 400 V	2200	
8	<a href="#">VS-8ETL06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	600	1.05	8	170	8 A, 200 A/us, 400 V	2200	
8	<a href="#">VS-8ETX06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	3	8	17	8 A, 200 A/us, 400 V	88	
8	<a href="#">VS-ETX0806-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	3.40	8	17	8 A, 200 A/us, 400 V	72	
8	<a href="#">VS-8ETX06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	600	3	8	17	8 A, 200 A/us, 400 V	88	
8	<a href="#">VS-ETH0806FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	2.4	8	25	8 A, 200 A/us, 400 V	120	

Note:

1. Single die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented

4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free mould compound and RoHs compliant
7. Halogen free mould compound and RoHs compliant and totally lead free
8. RoHs compliant and totally lead free
- A. Automotive Grade Device available on request



# RECTIFIERS

## Ultrafast Recovery Rectifiers



FRED Pt® (Fast Recovery Epitaxial Diodes), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>			Typ t <sub>r</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
8	<a href="#">VS-8ETH06FPPBF</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	2.4	8	25	8 A, 200 A/us, 400 V	120	
8	<a href="#">VS-8ETH06FP-N3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAC	600	2.4	8	25	8 A, 200 A/us, 400 V	120	
8	<a href="#">VS-8ETL06FPPBF</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	1.05	8	170	8 A, 200 A/us, 400 V	2200	
8	<a href="#">VS-ETL0806FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	1.07	8	180	8 A, 200 A/us, 400 V	2400	
8	<a href="#">VS-8ETL06FP-N3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAC	600	1.05	8	170	8 A, 200 A/us, 400 V	2200	
8	<a href="#">VS-8ETX06FPPBF</a>	I	Isolated Power Plastic <sup>(1)(8)</sup>	TO-220FPAC	600	3	8	17	8 A, 200 A/us, 400 V	88	
8	<a href="#">VS-ETX0806FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	3.40	8	17	8 A, 200 A/us, 400 V	72	
8	<a href="#">VS-8ETX06FP-N3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAC	600	3	8	17	8 A, 200 A/us, 400 V	88	
8	<a href="#">VS-8EWH02FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	200	0.97	8	24	8 A, 200 A/us, 160 V	27 at R.T.	
8	<a href="#">VS-8CWH02FNx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	200	0.95	4	20	4A, 200A/us, 160V	20 at R.T.	
8	<a href="#">VS-8EWH06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	2.40	8	25	8 A, 200 A/us, 390 V	25 at R.T.	
8	<a href="#">VS-8EWL06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	1.05	8	170	8 A, 200 A/us, 390 V	1300 at R.T.	
8	<a href="#">VS-8EWX06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	3.40	8	17	8 A, 200 A/us, 390 V	20 at R.T.	
8	<a href="#">VS-MURB820-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.	
8	<a href="#">VS-8ETH03-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	300	1.25	8	27	8 A, 200 A/us, 200 V	106	
8	<a href="#">VS-8ETU04-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
8	<a href="#">VS-8ETH06-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	2.4	8	25	8 A, 200 A/us, 400 V	120	
8	<a href="#">VS-8ETL06-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	1.05	8	170	8 A, 200 A/us, 400 V	2200	
8	<a href="#">VS-8ETX06-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	3	8	17	8 A, 200 A/us, 400 V	88	
8	<a href="#">VS-MURB820xPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.	
8	<a href="#">VS-8ETH03SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	300	1.25	8	27	8 A, 200 A/us, 200 V	106	
8	<a href="#">VS-8ETU04SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
8	<a href="#">VS-8ETH06SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	2.4	8	25	8 A, 200 A/us, 400 V	120	
8	<a href="#">VS-8ETL06SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.05	8	170	8 A, 200 A/us, 400 V	2200	
8	<a href="#">VS-8ETX06SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	3	8	17	8 A, 200 A/us, 400 V	88	

Note:

1. Single die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented

4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free mould compound and RoHs compliant
7. Halogen free mould compound and RoHs compliant and totally lead free
8. RoHs compliant and totally lead free
- A. Automotive Grade Device available on request

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# RECTIFIERS

## Ultrafast Recovery Rectifiers



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FRED Pt® (Fast Recovery Epitaxial Diodes), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
10	<a href="#">VS-MUR1020CTPBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AB	200	1.25	10	24	5 A, 200 A/us, 160 V	76	
10	<a href="#">VS-MUR1020CT-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	200	1.25	10	24	5 A, 200 A/us, 160 V	76	
10	<a href="#">VS-10CWH02FNx-M3</a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-252AA (DPAK)	200	0.98	5	21	5 A, 200 A/us, 160 V	20 at R.T.	
10	<a href="#">VS-MURB1020CT-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	200	1.25	10	24	5 A, 200 A/us, 160 V	76	
10	<a href="#">VS-MURB1020CTxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.25	10	24	5 A, 200 A/us, 160 V	76	
12	<a href="#">VS-12EWH06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	2.50	12	26	12 A, 200 A/us, 390 V	48 at R.T.	
15	<a href="#">VS-MUR1520PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	200	1.05	15	22	15 A, 200 A/us, 160 V	90	
15	<a href="#">VS-MUR1520-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	200	1.05	15	22	15 A, 200 A/us, 160 V	90	
15	<a href="#">VS-15ETH03PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	300	1.25	15	32	15 A, 200 A/us, 200 V	137	
15	<a href="#">VS-15ETH03-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	300	1.25	15	32	15 A, 200 A/us, 200 V	137	
15	<a href="#">VS-15ETH06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	2.2	15	29	15 A, 200 A/us, 390 V	300	
15	<a href="#">VS-ETH1506-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	2.45	15	29	15 A, 200 A/us, 390 V	240	
15	<a href="#">VS-15ETH06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	600	2.2	15	29	15 A, 200 A/us, 390 V	300	
15	<a href="#">VS-ETU1506-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	1.9	15	40	15 A, 200 A/us, 390 V	730	
15	<a href="#">VS-15ETL06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	1.05	15	220	15 A, 200 A/us, 390 V	4300	
15	<a href="#">VS-ETL1506-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	1.07	15	210	15 A, 200 A/us, 390 V	4000	
15	<a href="#">VS-15ETL06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	600	1.05	15	220	15 A, 200 A/us, 390 V	4300	
15	<a href="#">VS-15ETX06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	3.2	15	22	15 A, 200 A/us, 390 V	150	
15	<a href="#">VS-ETX1506-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	3.40	15	20	15 A, 200 A/us, 390 V	135	
15	<a href="#">VS-15ETX06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	600	3.2	15	22	15 A, 200 A/us, 390 V	150	
15	<a href="#">VS-15ETH06FPPBF</a>	I	Isolated Power Plastic <sup>(1)(8)</sup>	TO-220FPAC	600	2.2	15	29	15 A, 200 A/us, 390 V	300	
15	<a href="#">VS-ETH1506FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	2.2	15	29	15 A, 200 A/us, 390 V	300	
15	<a href="#">VS-15ETH06FP-N3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAC	600	2.2	15	29	15 A, 200 A/us, 390 V	300	
15	<a href="#">VS-ETU1506FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	1.9	15	40	15 A, 200 A/us, 390 V	730	
15	<a href="#">VS-15ETL06FPPBF</a>	I	Isolated Power Plastic <sup>(1)(8)</sup>	TO-220FPAC	600	1.05	15	220	15 A, 200 A/us, 390 V	4300	
15	<a href="#">VS-ETL1506FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	1.07	15	210	15 A, 200 A/us, 390 V	4000	
15	<a href="#">VS-15ETL06FP-N3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAC	600	1.05	15	220	15 A, 200 A/us, 390 V	4300	
15	<a href="#">VS-15ETX06FPPBF</a>	I	Isolated Power Plastic <sup>(1)(8)</sup>	TO-220FPAC	600	3.2	15	22	15 A, 200 A/us, 390 V	150	
15	<a href="#">VS-ETX1506FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAC	600	3.40	15	20	15 A, 200 A/us, 390 V	135	
15	<a href="#">VS-15ETX06FP-N3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAC	600	3.2	15	22	15 A, 200 A/us, 390 V	150	

Note:

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# RECTIFIERS

## Ultrafast Recovery Rectifiers



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FRED Pt® (Fast Recovery Epitaxial Diodes), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)
15	<a href="#">VS-15AWL06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	1.05	15	250	15 A, 200 A/us, 390 V	4000
15	<a href="#">VS-15EWH06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	2.10	15	31	15 A, 200 A/us, 390 V	60 at R.T.
15	<a href="#">VS-15EWL06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	1.05	15	250	15 A, 200 A/us, 390 V	4000
15	<a href="#">VS-15EWX06FNx-M3</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-252AA (DPAK)	600	3.20	15	22	15 A, 200 A/us, 390 V	29 at R.T.
15	<a href="#">VS-MURB1520-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	200	1.05	15	22	15 A, 200 A/us, 160 V	90
15	<a href="#">VS-15ETH03-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	300	1.25	15	32	15 A, 200 A/us, 200 V	137
15	<a href="#">VS-15ETH06-1PBF</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	2.2	15	29	15 A, 200 A/us, 390 V	300
15	<a href="#">VS-ETH1506-1-M3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	2.25	15	29	15 A, 200 A/us, 390 V	280
15	<a href="#">VS-15ETL06-1PBF</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	1.05	15	220	15 A, 200 A/us, 390 V	4300
15	<a href="#">VS-ETL1506-1-M3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	1.07	15	210	15 A, 200 A/us, 390 V	4000
15	<a href="#">VS-ETU1506-1-M3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	1.9	15	40	15 A, 200 A/us, 390 V	730
15	<a href="#">VS-15ETX06-1PBF</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	3.2	15	22	15 A, 200 A/us, 390 V	150
15	<a href="#">VS-ETX1506-1-M3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	3.4	15	20	15 A, 200 A/us, 390 V	140
15	<a href="#">VS-MURB1520xPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.05	15	22	15 A, 200 A/us, 160 V	90
15	<a href="#">VS-15ETH03SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	300	1.25	15	32	15 A, 200 A/us, 200 V	137
15	<a href="#">VS-15ETH06SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	2.2	15	29	15 A, 200 A/us, 390 V	300
15	<a href="#">VS-ETH1506Sx-M3<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	2.25	15	29	15 A, 200 A/us, 390 V	280
15	<a href="#">VS-ETU1506Sx-M3<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.9	15	40	15 A, 200 A/us, 390 V	730
15	<a href="#">VS-15ETL06SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.05	15	220	15 A, 200 A/us, 390 V	4300
15	<a href="#">VS-ETL1506Sx-M3<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.07	15	210	15 A, 200 A/us, 390 V	4000
15	<a href="#">VS-15ETX06SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	3.2	15	22	15 A, 200 A/us, 390 V	150
15	<a href="#">VS-ETX1506Sx-M3<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	3.4	15	20	15 A, 200 A/us, 390 V	140
16	<a href="#">VS-MUR1620CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.

Note:

1. Single die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
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## Ultrafast Recovery Rectifiers



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FRED Pt® (Fast Recovery Epitaxial Diodes), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
16	<a href="#">VS-MUR1620CT-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.	
16	<a href="#">VS-16CTU04PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
16	<a href="#">VS-16CTU04-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
16	<a href="#">VS-MURB1620CT-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.	
16	<a href="#">VS-16CTU04-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
16	<a href="#">VS-MURB1620CTxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	0.975	8	20	8 A, 200 A/us, 160 V	23 at R.T.	
16	<a href="#">VS-16CTU04SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	400	1.3	8	43	8 A, 200 A/us, 200 V	210	
20	<a href="#">VS-MUR2020CTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	200	1.15	16	21	10 A, 200 A/us, 160 V	25 at R.T.	
20	<a href="#">VS-MUR2020CT-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	200	1.15	16	21	10 A, 200 A/us, 160 V	25 at R.T.	
20	<a href="#">VS-20CTH03PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	300	1.25	10	31	10 A, 200 A/us, 200 V	120	
20	<a href="#">VS-20CTH03-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	300	1.25	10	31	10 A, 200 A/us, 200 V	120	
20	<a href="#">VS-20CTH03FPPBF</a>	I	Isolated Power Plastic <sup>(2)(8)</sup>	TO-220FPAB	300	1.25	10	31	10 A, 200 A/us, 200 V	120	
20	<a href="#">VS-20CTH03FP-N3</a>	I	Isolated Power Plastic <sup>(2)(7)</sup>	TO-220FPAB	300	1.25	10	31	10 A, 200 A/us, 200 V	120	
20	<a href="#">VS-MURB2020CT-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	200	1.15	16	21	10 A, 200 A/us, 160 V	25 at R.T.	
20	<a href="#">VS-20CTH03-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	300	1.25	10	31	10 A, 200 A/us, 200 V	120	
20	<a href="#">VS-MURB2020CTxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.15	16	21	10 A, 200 A/us, 160 V	25 at R.T.	
20	<a href="#">VS-20CTH03SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	300	1.25	10	31	10 A, 200 A/us, 200 V	120	
30	<a href="#">VS-30CTH02PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	200	1.05	15	26	15 A, 200 A/us, 160 V	37 at R.T.	
30	<a href="#">VS-30CTH02-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	200	1.05	15	26	15 A, 200 A/us, 160 V	37 at R.T.	
30	<a href="#">VS-30CTH03PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	300	1.25	15	33	15 A, 200 A/us, 200 V	160	
30	<a href="#">VS-30CTH03-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-220AB	300	1.25	15	33	15 A, 200 A/us, 200 V	160	
30	<a href="#">VS-30ETH06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	2.6	30	31	30 A, 200 A/us, 200 V	345	
30	<a href="#">VS-ETH3006-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	2.65	30	26	30 A, 200 A/us, 200 V	280	
30	<a href="#">VS-ETU3006-M3</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-220AC	600	2.00	30	45	30 A, 200 A/us, 200 V	580	
30	<a href="#">VS-30ETH06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-220AC	600	2.6	30	31	30 A, 200 A/us, 200 V	345	
30	<a href="#">VS-30CTH02FPPBF</a>	I	Isolated Power Plastic <sup>(2)(8)</sup>	TO-220FPAB	200	1.05	15	26	15 A, 200 A/us, 160 V	37 at R.T.	
30	<a href="#">VS-30CTH02FP-N3</a>	I	Isolated Power Plastic <sup>(2)(7)</sup>	TO-220FPAB	200	1.05	15	26	15 A, 200 A/us, 160 V	37 at R.T.	
30	<a href="#">VS-30ETH06FP-F3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAB	600	2.60	30	31	30 A, 200 A/us, 200 V	345	
30	<a href="#">VS-ETH3006FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAB	600	2.65	30	26	30 A, 200 A/us, 200 V	280	
30	<a href="#">VS-ETU3006FP-M3</a>	I	Isolated Power Plastic <sup>(1)(6)</sup>	TO-220FPAB	600	2.00	30	45	30 A, 200 A/us, 200 V	580	

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# RECTIFIERS

## Ultrafast Recovery Rectifiers



FRED Pt® (Fast Recovery Epitaxial Diodes), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)
30	<a href="#">VS-30ETH06FP-N3</a>	I	Isolated Power Plastic <sup>(1)(7)</sup>	TO-220FPAB	600	2.6	30	31	30 A, 200 A/us, 200 V	345
30	<a href="#">VS-MUR3020WTPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	200	1.05	15	22	15 A, 200 A/us, 160 V	19 at R.T.
30	<a href="#">VS-MUR3020WT-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-247AC	200	1.05	15	22	15 A, 200 A/us, 160 V	19 at R.T.
30	<a href="#">VS-30CPH03PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	300	1.25	15	33	15 A, 200 A/us, 200 V	160
30	<a href="#">VS-30CPH03-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-247AC	300	1.25	15	33	15 A, 200 A/us, 200 V	160
30	<a href="#">VS-30CPU04PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	400	1.25	15	46	15 A, 200 A/us, 200 V	345
30	<a href="#">VS-30CPU04-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(7)</sup>	TO-247AC	400	1.25	15	46	15 A, 200 A/us, 200 V	345
30	<a href="#">VS-30EPH03PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	300	1.25	30	38	30 A, 200 A/us, 200 V	190
30	<a href="#">VS-30EPH03-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-247AC (mod)	300	1.25	30	38	30 A, 200 A/us, 200 V	190
30	<a href="#">VS-30EPH06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	2.6	30	31	30 A, 200 A/us, 200 V	345
30	<a href="#">VS-30EPH06-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-247AC (mod)	600	2.6	30	31	30 A, 200 A/us, 200 V	345
30	<a href="#">VS-APH3006-F3</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	2.60	30	36	30 A, 200 A/us, 200 V	280
30	<a href="#">VS-APH3006-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-247AC (mod)	600	2.60	30	36	30 A, 200 A/us, 200 V	280
30	<a href="#">VS-EPH3006-F3</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	2.60	30	36	30 A, 200 A/us, 200 V	280
30	<a href="#">VS-EPH3006-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-247AC (mod)	600	2.60	30	36	30 A, 200 A/us, 200 V	280
30	<a href="#">VS-EPU3006-F3</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	2.00	30	45	30 A, 200 A/us, 200 V	580
30	<a href="#">VS-EPU3006-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-247AC (mod)	600	2.00	30	45	30 A, 200 A/us, 200 V	580
30	<a href="#">VS-APU3006-F3</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	2.00	30	45	30 A, 200 A/us, 200 V	580
30	<a href="#">VS-APU3006-N3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(7)</sup>	TO-247AC (mod)	600	2.00	30	45	30 A, 200 A/us, 200 V	580
30	<a href="#">VS-30CTH02-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	200	1.05	15	26	15 A, 200 A/us, 160 V	37 at R.T.
30	<a href="#">VS-30ETH06-1PBF</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	2.6	30	31	30 A, 200 A/us, 200 V	345
30	<a href="#">VS-ETH3006-1-M3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	2.6	30	26	30 A, 200 A/us, 200 V	280
30	<a href="#">VS-ETU3006-1-M3<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	2.00	30	45	30 A, 200 A/us, 200 V	580

Note:

1. Single die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
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Rectifiers - Worldwide Leader in Power Rectifiers



# RECTIFIERS

## Ultrafast Recovery Rectifiers



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FRED Pt® (Fast Recovery Epitaxial Diodes), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
30	<a href="#">VS-30CTH02SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200	1.05	15	26	15 A, 200 A/us, 160 V	37 at R.T.	
30	<a href="#">VS-30ETH06SxPBF</a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	2.6	30	31	30 A, 200 A/us, 200 V	345	
30	<a href="#">VS-ETH3006Sx-M3<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	600	2.6	30	26	30 A, 200 A/us, 200 V	280	
30	<a href="#">VS-ETU3006Sx-M3<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	<b>TO-263AB (D<sup>2</sup>PAK)</b>	600	2.00	30	45	30 A, 200 A/us, 200 V	580	
60	<a href="#">VS-60CPU02-F</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	200	1.1	30	30	30 A, 200 A/us, 160 V	160	
60	<a href="#">VS-60CPU02-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	200	1.1	30	30	30 A, 200 A/us, 160 V	160	
60	<a href="#">VS-60CPH03PBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	300	1.25	30	39	30 A, 200 A/us, 200 V	214	
60	<a href="#">VS-60CPH03-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	300	1.25	30	39	30 A, 200 A/us, 200 V	214	
60	<a href="#">VS-60CPU04-F3</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	400	1.30	30	65	30 A, 200 A/us, 200 V	874	
60	<a href="#">VS-60CPU04-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	400	1.30	30	65	30 A, 200 A/us, 200 V	874	
60	<a href="#">VS-60CPU06-F</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	600	1.65	30	42	30 A, 200 A/us, 200 V	630	
60	<a href="#">VS-60CPU06-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	600	1.65	30	42	30 A, 200 A/us, 200 V	630	
60	<a href="#">VS-60APU02PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	200	1.08	60	28	60 A, 200 A/us, 160 V	220	
60	<a href="#">VS-60APU02-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(8)</sup></b>	<b>TO-247AC (mod)</b>	200	1.08	60	28	60 A, 200 A/us, 160 V	220	
60	<a href="#">VS-60APU04PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	400	1.25	60	85	60 A, 200 A/us, 200 V	1120	
60	<a href="#">VS-60APU04-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	400	1.25	60	85	60 A, 200 A/us, 200 V	1120	
60	<a href="#">VS-60APU06PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	1.68	60	81	60 A, 200 A/us, 200 V	1394	
60	<a href="#">VS-60APU06-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	600	1.68	60	81	60 A, 200 A/us, 200 V	1394	
60	<a href="#">VS-60EPU02PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	200	1.08	60	28	60 A, 200 A/us, 160 V	220	
60	<a href="#">VS-60EPU02-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	200	1.08	60	28	60 A, 200 A/us, 160 V	220	
60	<a href="#">VS-60EPU04PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	400	1.25	60	85	60 A, 200 A/us, 200 V	1120	
60	<a href="#">VS-60EPU04-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	400	1.25	60	85	60 A, 200 A/us, 200 V	1120	

Note:

1. Single die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
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# RECTIFIERS

## Ultrafast Recovery Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

FRED Pt® (Fast Recovery Epitaxial Diodes), continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>rr</sub> at 25 °C		Typ Q <sub>rr</sub> at 125 °C	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
60	<a href="#">VS-60EPU06PBF</a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-247AC (mod)	600	1.68	60	81	60 A, 200 A/us, 200 V	1394	
<b>60</b>	<b><a href="#">VS-60EPU06-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>600</b>	<b>1.68</b>	<b>60</b>	<b>81</b>	<b>60 A, 200 A/us, 200 V</b>	<b>1394</b>	
80	<a href="#">VS-80EBU02<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	POWERTAB™	200	1.13	80	32	80 A, 200 A/us, 160 V	240	
80	<a href="#">VS-80EBU04<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	POWERTAB™	400	1.3	80	87	80 A, 200 A/us, 200 V	1300	
80	<a href="#">VS-80CPU02-F3</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-247AC	200	0.90	40	33	40 A, 200 A/us, 200 V	216	
<b>80</b>	<b><a href="#">VS-80CPU02-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>200</b>	<b>0.90</b>	<b>40</b>	<b>33</b>	<b>40 A, 200 A/us, 200 V</b>	<b>216</b>	
80	<a href="#">VS-80CPH03-F3</a>	I	Power Plastic Through Hole <sup>(2)(6)</sup>	TO-247AC	300	1.25	40	41	40 A, 200 A/us, 200 V	265	
<b>80</b>	<b><a href="#">VS-80CPH03-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>300</b>	<b>1.25</b>	<b>40</b>	<b>41</b>	<b>40 A, 200 A/us, 200 V</b>	<b>265</b>	
150	<a href="#">VS-150EBU02<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	POWERTAB™	200	1.13	150	34	150 A, 200 A/us, 160 V	300	
150	<a href="#">VS-150EBU04<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	POWERTAB™	400	1.3	150	93	150 A, 200 A/us, 200 V	1740	

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# RECTIFIERS

## Ultrafast Recovery Rectifiers



### HEXFRED®

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>rr</sub> at see setup (ns)	Typ Q <sub>rr</sub> at see setup	
			Family	Type		(V)	(A)		setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)
4	<a href="#">VS-HFA04TB60PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	1.8	4	28	4 A, 200 A/us, 200 V	70
4	<a href="#">VS-HFA04TB60-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>600</b>	<b>1.8</b>	<b>4</b>	<b>28</b>	<b>4 A, 200 A/us, 200 V</b>	<b>70</b>
4	<a href="#">VS-HFA04SD60SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252 (DPAK)	600	1.8	4	28	4 A, 200 A/us, 200 V	70
4	<a href="#">VS-HFA04SD60Sx-M3<sup>(A)</sup></a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252 (DPAK)</b>	<b>600</b>	<b>1.8</b>	<b>4</b>	<b>28</b>	<b>4 A, 200 A/us, 200 V</b>	<b>70</b>
4	<a href="#">VS-HFA04TB60SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.8	4	28	4 A, 200 A/us, 200 V	70
6	<a href="#">VS-HFA06TB120PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	1200	3	6	53	6 A, 200 A/us, 200 V	233
6	<a href="#">VS-HFA06TB120-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>1200</b>	<b>3</b>	<b>6</b>	<b>53</b>	<b>6 A, 200 A/us, 200 V</b>	<b>233</b>
6	<a href="#">VS-HFA06PB120PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	1200	3	6	53	6 A, 200 A/us, 200 V	233
6	<a href="#">VS-HFA06PB120-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>1200</b>	<b>3</b>	<b>6</b>	<b>53</b>	<b>6 A, 200 A/us, 200 V</b>	<b>233</b>
6	<a href="#">VS-HFA06TB120SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	1200	3	6	53	6 A, 200 A/us, 200 V	233
8	<a href="#">VS-HFA08TA60CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	600	2.2	8	28	4 A, 200 A/us, 200 V	70
8	<a href="#">VS-HFA08TA60C-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>600</b>	<b>2.2</b>	<b>8</b>	<b>28</b>	<b>4 A, 200 A/us, 200 V</b>	<b>70</b>
8	<a href="#">VS-HFA08TB60PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	1.7	8	37	8 A, 200 A/us, 200 V	124
8	<a href="#">VS-HFA08TB60-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>600</b>	<b>1.7</b>	<b>8</b>	<b>37</b>	<b>8 A, 200 A/us, 200 V</b>	<b>124</b>
8	<a href="#">VS-HFA08PB60PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	1.7	8	37	8 A, 200 A/us, 200 V	124
8	<a href="#">VS-HFA08PB60-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>600</b>	<b>1.7</b>	<b>8</b>	<b>37</b>	<b>8 A, 200 A/us, 200 V</b>	<b>124</b>
8	<a href="#">VS-HFA08SD60SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(9)</sup>	TO-252 (DPAK)	600	1.7	8	37	8 A, 200 A/us, 200 V	124
8	<a href="#">VS-HFA08SD60Sx-M3<sup>(A)</sup></a>	I	<b>Power Plastic SMD<sup>(1)(3)(6)</sup></b>	<b>TO-252 (DPAK)</b>	<b>600</b>	<b>1.7</b>	<b>8</b>	<b>37</b>	<b>8 A, 200 A/us, 200 V</b>	<b>124</b>
8	<a href="#">VS-HFA08TA60CSxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	2.2	8	28	4 A, 200 A/us, 200 V	70
8	<a href="#">VS-HFA08TB60SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.7	8	37	8 A, 200 A/us, 200 V	124
8	<a href="#">VS-HFA08TB120PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	1200	3.3	8	63	8 A, 200 A/us, 200 V	335
8	<a href="#">VS-HFA08TB120-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>1200</b>	<b>3.3</b>	<b>8</b>	<b>63</b>	<b>8 A, 200 A/us, 200 V</b>	<b>335</b>
8	<a href="#">VS-HFA08PB120PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	1200	3.3	8	63	8 A, 200 A/us, 200 V	335
8	<a href="#">VS-HFA08PB120-N3<sup>(A)</sup></a>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>1200</b>	<b>3.3</b>	<b>8</b>	<b>63</b>	<b>8 A, 200 A/us, 200 V</b>	<b>335</b>

Note:

1. Single die device
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## Ultrafast Recovery Rectifiers



HEXFRED®, continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at see setup		Typ Q <sub>rr</sub> at see setup
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)
8	<a href="#">VS-HFA08TB120SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	1200	3.3	8	63	8 A, 200 A/us, 200 V	335
12	<a href="#">VS-HFA12PA120CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	1200	3.9	12	53	6 A, 200 A/us, 200 V	233
<b>12</b>	<b><a href="#">VS-HFA12PA120C-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>1200</b>	<b>3.9</b>	<b>12</b>	<b>53</b>	<b>6 A, 200 A/us, 200 V</b>	<b>233</b>
15	<a href="#">VS-HFA15TB60PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	1.7	15	42	15 A, 200 A/us, 200 V	241
<b>15</b>	<b><a href="#">VS-HFA15TB60-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>600</b>	<b>1.7</b>	<b>15</b>	<b>42</b>	<b>15 A, 200 A/us, 200 V</b>	<b>241</b>
15	<a href="#">VS-HFA15PB60PBF</a>	I	Power Plastic Through Hole (1)(8)	TO-247AC (mod)	600	1.7	15	42	15 A, 200 A/us, 200 V	241
<b>15</b>	<b><a href="#">VS-HFA15PB60-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>600</b>	<b>1.7</b>	<b>15</b>	<b>42</b>	<b>15 A, 200 A/us, 200 V</b>	<b>241</b>
15	<a href="#">VS-HFA15TB60-1PBF<sup>(A)</sup></a>	I	Power Plastic Through Hole <sup>(1)(6)</sup>	TO-262 (I <sup>2</sup> PAK)	600	1.7	15	42	15 A, 200 A/us, 200 V	241
15	<a href="#">VS-HFA15TB60SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.7	15	50	15 A, 200 A/us, 200 V	241
16	<a href="#">VS-HFA16TA60CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	600	2.1	16	37	8 A, 200 A/us, 200 V	124
<b>16</b>	<b><a href="#">VS-HFA16TA60C-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>600</b>	<b>2.1</b>	<b>16</b>	<b>37</b>	<b>8 A, 200 A/us, 200 V</b>	<b>124</b>
16	<a href="#">VS-HFA16PA60CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	600	2.1	16	37	8 A, 200 A/us, 200 V	124
<b>16</b>	<b><a href="#">VS-HFA16PA60C-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>600</b>	<b>2.1</b>	<b>16</b>	<b>37</b>	<b>8 A, 200 A/us, 200 V</b>	<b>124</b>
16	<a href="#">VS-HFA16TA60CSxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	2.1	16	37	8 A, 200 A/us, 200 V	124
16	<a href="#">VS-HFA16TB120PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	1200	3	16	90	16 A, 200 A/us, 200 V	680
<b>16</b>	<b><a href="#">VS-HFA16TB120-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>1200</b>	<b>3</b>	<b>16</b>	<b>90</b>	<b>16 A, 200 A/us, 200 V</b>	<b>680</b>
16	<a href="#">VS-HFA16PA120CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	1200	4.3	16	63	8 A, 200 A/us, 200 V	335
<b>16</b>	<b><a href="#">VS-HFA16PA120C-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>1200</b>	<b>4.3</b>	<b>16</b>	<b>63</b>	<b>8 A, 200 A/us, 200 V</b>	<b>335</b>
16	<a href="#">VS-HFA16PB120PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	1200	3	16	90	16 A, 200 A/us, 200 V	680
<b>16</b>	<b><a href="#">VS-HFA16PB120-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>1200</b>	<b>3</b>	<b>16</b>	<b>90</b>	<b>16 A, 200 A/us, 200 V</b>	<b>680</b>
16	<a href="#">VS-HFA16TB120SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	1200	3	16	90	16 A, 200 A/us, 200 V	680
25	<a href="#">VS-HFA25TB60PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-220AC	600	1.7	25	50	25 A, 200 A/us, 200 V	420
<b>25</b>	<b><a href="#">VS-HFA25TB60-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-220AC</b>	<b>600</b>	<b>1.7</b>	<b>25</b>	<b>50</b>	<b>25 A, 200 A/us, 200 V</b>	<b>420</b>
25	<a href="#">VS-HFA25PB60PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	600	1.7	25	50	25 A, 200 A/us, 200 V	420
<b>25</b>	<b><a href="#">VS-HFA25PB60-N3<sup>(A)</sup></a></b>	I	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>600</b>	<b>1.7</b>	<b>25</b>	<b>50</b>	<b>25 A, 200 A/us, 200 V</b>	<b>420</b>

Note:

1. Single die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented

4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free mould compound and RoHs compliant
7. Halogen free mould compound and RoHs compliant and totally lead free
8. RoHs compliant and totally lead free
- A. Automotive Grade Device available on request



**RECTIFIERS**

**Ultrafast Recovery Rectifiers**



Rectifiers - Worldwide Leader in Power Rectifiers

HEXFRED®, continued

I <sub>F(AV)</sub> (A)	Device <sup>(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at see setup		Typ Q <sub>rr</sub> at see setup
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)
25	<a href="#">VS-HFA25TB60SxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(1)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	1.7	25	50	25 A, 200 A/us, 200 V	420
30	<a href="#">VS-HFA30TA60CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-220AB	600	2	30	42	15 A, 200 A/us, 200 V	220
<b>30</b>	<b><a href="#">VS-HFA30TA60-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-220AB</b>	<b>600</b>	<b>2</b>	<b>30</b>	<b>42</b>	<b>15 A, 200 A/us, 200 V</b>	<b>220</b>
30	<a href="#">VS-HFA30PA60CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	600	2	30	42	15 A, 200 A/us, 200 V	220
<b>30</b>	<b><a href="#">VS-HFA30PA60C-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>600</b>	<b>2</b>	<b>30</b>	<b>42</b>	<b>15 A, 200 A/us, 200 V</b>	<b>220</b>
30	<a href="#">VS-HFA30TA60CSxPBF<sup>(A)</sup></a>	I	Power Plastic SMD <sup>(2)(3)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	600	2	30	42	15 A, 200 A/us, 200 V	220
30	<a href="#">VS-HFA30PB120PBF</a>	I	Power Plastic Through Hole <sup>(1)(8)</sup>	TO-247AC (mod)	1200	4.1	30	110	30 A, 200 A/us, 200 V	1540
<b>30</b>	<b><a href="#">VS-HFA30PB120-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(1)(7)</sup></b>	<b>TO-247AC (mod)</b>	<b>1200</b>	<b>4.1</b>	<b>30</b>	<b>110</b>	<b>30 A, 200 A/us, 200 V</b>	<b>1540</b>
32	<a href="#">VS-HFA32PA120CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	1200	3.93	32	90	16 A, 200 A/us, 200 V	680
<b>32</b>	<b><a href="#">VS-HFA32PA120C-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>1200</b>	<b>3.93</b>	<b>32</b>	<b>90</b>	<b>16 A, 200 A/us, 200 V</b>	<b>680</b>
50	<a href="#">VS-HFA50PA60CPBF</a>	I	Power Plastic Through Hole <sup>(2)(8)</sup>	TO-247AC	600	2	50	50	25 A, 200 A/us, 200 V	420
<b>50</b>	<b><a href="#">VS-HFA50PA60C-N3<sup>(A)</sup></a></b>	<b>I</b>	<b>Power Plastic Through Hole<sup>(2)(7)</sup></b>	<b>TO-247AC</b>	<b>600</b>	<b>2</b>	<b>50</b>	<b>50</b>	<b>25 A, 200 A/us, 200 V</b>	<b>420</b>

Note:

1. Single die device
2. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
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4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free mould compound and RoHs compliant
7. Halogen free mould compound and RoHs compliant and totally lead free
8. RoHs compliant and totally lead free
- A. Automotive Grade Device available on request



# RECTIFIERS

## Ultrafast Recovery Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

### Ultrafast Avalanche Rated Sinterglass Diodes

Part Number	$V_R$ $V_{RRM}$ $V_{RWM}$ (V)	$I_{FAV}$ (A)	$I_{FSM}$ at $t_p = 10$ ms (A)	$V_F$ 25 °C (V)	At $I_F$ (A)	$I_R$ at $T_j$ 25 °C ( $\mu$ A)	$I_R$ High Temp. ( $\mu$ A)	At $T_j$ (°C)	$T_j, T_{STG}$ Min. (°C)	$T_j, T_{STG}$ Max. (°C)	$t_{rr}$ Max. (ns)	$E_R$ (mJ)	At $I_R$ (A)
<a href="#">BYT53A</a>	50	1.9	50	1.1	1	5	200	150	- 55	175	50	20	1.0
<a href="#">BYT53B</a>	100	1.9	50	1.1	1	5	200	150	- 55	175	50	20	1.0
<a href="#">BYT53C</a>	150	1.9	50	1.1	1	5	200	150	- 55	175	50	20	1.0
<a href="#">BYT53D</a>	200	1.9	50	1.1	1	5	200	150	- 55	175	50	20	1.0
<a href="#">BYT53F</a>	300	1.9	50	1.1	1	5	200	150	- 55	175	50	20	1.0
<a href="#">BYT53G</a>	400	1.9	50	1.1	1	5	200	150	- 55	175	50	20	1.0
<a href="#">BYV26A</a>	200	1.0	30	2.5	1	5	100	150	- 55	175	30	10	1.0
<a href="#">BYV26B</a>	400	1.0	30	2.5	1	5	100	150	- 55	175	30	10	1.0
<a href="#">BYV26C</a>	600	1.0	30	2.5	1	5	100	150	- 55	175	30	10	1.0
<a href="#">BYV26D</a>	800	1.0	30	2.5	1	5	100	150	- 55	175	75	10	1.0
<a href="#">BYV26E</a>	1000	1.0	30	2.5	1	5	100	150	- 55	175	75	10	1.0
<a href="#">BYV27-50</a>	50	2.0	50	1.07	3	1	150	165	- 55	175	25	20	1.0
<a href="#">BYV27-100</a>	100	2.0	50	1.07	3	1	150	165	- 55	175	25	20	1.0
<a href="#">BYV27-150</a>	150	2.0	50	1.07	3	1	150	165	- 55	175	25	20	1.0
<a href="#">BYV27-200</a>	200	2.0	50	1.07	3	1	150	165	- 55	175	25	20	1.0
<a href="#">BYV27-600</a>	600	2.0	50	1.35	3	5	150	150	- 55	175	40	10	0.4
<a href="#">BYV28-50</a>	50	3.5	90	1.1	5	1	150	165	- 55	175	30	20	1.0
<a href="#">BYV28-100</a>	100	3.5	90	1.1	5	1	150	165	- 55	175	30	20	1.0
<a href="#">BYV28-150</a>	150	3.5	90	1.1	5	1	150	165	- 55	175	30	20	1.0
<a href="#">BYV28-200</a>	200	3.5	90	1.1	5	1	150	165	- 55	175	30	20	1.0
<a href="#">BYV28-600</a>	600	3.5	90	1.35	5	5	150	150	- 55	175	50	20	1.0
<a href="#">BYV98-50</a>	100	4.0	70	1.1	5	10	200	150	- 55	175	35	20	1.0
<a href="#">BYV98-100</a>	150	4.0	70	1.1	5	10	200	150	- 55	175	35	20	1.0
<a href="#">BYV98-150</a>	150	4.0	70	1.1	5	10	200	150	- 55	175	35	20	1.0
<a href="#">BYV98-200</a>	200	4.0	70	1.1	5	10	200	150	- 55	175	35	20	1.0
<a href="#">BYW178</a>	800	3.0	80	1.9	3	1	20	100	- 55	175	60	20	0.4
<a href="#">SF1200</a>	1200	1.0	30	3.4	1	5	50	125	- 55	175	75	10	0.4
<a href="#">SF1600</a>	1600	1.0	30	3.4	1	5	50	125	- 55	175	75	10	0.4
<a href="#">SF4001</a>	50	1.0	30	1.0	1	5	50	125	- 55	175	50	10	0.4
<a href="#">SF4002</a>	100	1.0	30	1.0	1	5	50	125	- 55	175	50	10	0.4
<a href="#">SF4003</a>	200	1.0	30	1.0	1	5	50	125	- 55	175	50	10	0.4
<a href="#">SF4004</a>	400	1.0	30	1.0	1	5	50	125	- 55	175	50	10	0.4
<a href="#">SF4005</a>	600	1.0	30	1.7	1	5	50	125	- 55	175	75	10	0.4
<a href="#">SF4006</a>	800	1.0	30	1.7	1	5	50	125	- 55	175	75	10	0.4
<a href="#">SF4007</a>	100	1.0	30	1.7	1	5	50	125	- 55	175	75	10	0.4
<a href="#">SF5400</a>	50	3.0	150	1.1	3	5	50	125	- 55	175	50	10	0.4

Note:  
 $E_R$  = pulse energy in avalanche mode



## RECTIFIERS

## Ultrafast Recovery Rectifiers



Ultrafast Avalanche Rated Sinterglass Diodes, continued

Part Number	$V_R$ $V_{RRM}$ $V_{RWM}$ (V)	$I_{FAV}$ (A)	$I_{FSM}$ at $t_p = 10$ ms (A)	$V_F$ 25 °C (V)	At $I_F$ (A)	$I_R$ at $T_j$ 25 °C ( $\mu$ A)	$I_R$ High Temp. ( $\mu$ A)	At $T_j$ (°C)	$T_j, T_{STG}$ Min. (°C)	$T_j, T_{STG}$ Max. (°C)	$t_{rr}$ Max. (ns)	$E_R$ (mJ)	At $I_R$ (A)
<a href="#">SF5401</a>	100	3.0	150	1.1	3	5	50	125	- 55	175	50	10	0.4
<a href="#">SF5402</a>	200	3.0	150	1.1	3	5	50	125	- 55	175	50	10	0.4
<a href="#">SF5403</a>	300	3.0	150	1.1	3	5	50	125	- 55	175	50	10	0.4
<a href="#">SF5404</a>	400	3.0	150	1.1	3	5	50	125	- 55	175	50	10	0.4
<a href="#">SF5405</a>	500	3.0	150	1.7	3	5	50	125	- 55	175	75	10	0.4
<a href="#">SF5406</a>	600	3.0	150	1.7	3	5	50	125	- 55	175	75	10	0.4
<a href="#">SF5407</a>	800	3.0	150	1.7	3	5	50	125	- 55	175	75	10	0.4
<a href="#">SF5408</a>	1000	3.0	150	1.7	3	5	50	125	- 55	175	75	10	0.4

Note:

 $E_R$  = pulse energy in avalanche mode





**Standard and Fast Recovery Rectifiers**

Rectifiers - Worldwide Leader in Power Rectifiers

**Standard Rectifiers** are for low-frequency general purpose use in consumer applications. Typical reverse recovery times are approximately 2  $\mu$ s. These products are offered with forward current ratings of 0.25 A to 8 A and reverse voltages as high as 4000 V. They are available in plastic, glass, and SUPERRECTIFIER<sup>®</sup> constructions.

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family	Type		(V)	(A)
0.25	<a href="#">GI250-1 to GI250-4</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	1000 to 4000	3.5	0.25
0.25	<a href="#">GP02-20 to GP02-40</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	2000 to 4000	3.0	1.0
0.5	<a href="#">GL34A to GL34J</a>	SUPERRECTIFIER SMD	DO-213AA (MiniMELF)	50 to 600	1.2 / 1.3	0.5
0.8	<a href="#">GP08A to GP08J</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	50 to 600	1.3	0.8
1.0	<a href="#">1N3611GP to 1N3614GP and 1N3957GP</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	200 to 1000	1.0	1.0
1.0	<a href="#">1N4001 to 1N4007</a>	Plastic Axial	DO-204AL (DO-41)	50 to 1000	1.1	1.0
1.0	<a href="#">1N4001GP to 1N4007GP</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	50 to 1000	1.1	1.0
1.0	<a href="#">1N4245GP to 1N4249GP</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	200 to 1000	1.2	1.0
1.0	<a href="#">1N4383GP to 1N4385GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	200 to 600	1.0	1.0
1.0	<a href="#">1N4585GP and 1N4586GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	800 to 1000	1.0	1.0
1.0	<a href="#">1N5059GP to 1N5062GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	200 to 800	1.2	1.0
1.0	<a href="#">1N5614GP to 1N5622GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	200 to 1000	1.2	1.0
1.0	<a href="#">1N6478 to 1N6484</a>	SUPERRECTIFIER SMD	DO-213AB (MELF)	50 to 1000	1.1	1.0
1.0	<a href="#">BYM10-50 to BYM10-1000</a>	SUPERRECTIFIER SMD	DO-213AB (MELF)	50 to 1000	1.1 / 1.2	1.0
1.0	<a href="#">GF1A to GF1M</a>	SUPERRECTIFIER SMD	DO-214BA (GF1)	50 to 1000	1.1 / 1.2	1.0
1.0	<a href="#">GI1-1200GP to GI1-1600GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	1200 to 1600	1.1	1.0
1.0	<a href="#">GL41A to GL41Y</a>	SUPERRECTIFIER SMD	DO-213AB (MELF)	50 to 1600	1.1 / 1.2	1.0
1.0	<a href="#">GP10A to GP10Y</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	50 to 1600	1.1 / 1.2 / 1.3	1.0
1.0	<a href="#">GP10AE to GP10YE</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	50 to 1000	1.1 / 1.2 / 1.3	1.0
<b>1.0</b>	<b><a href="#">GPP10A to GPP10M</a></b>	<b>Plastic Axial<sup>(2)</sup></b>	<b>DO-204AL (DO-41)</b>	<b>50 to 1000</b>	<b>1.1</b>	<b>1.0</b>
1.0	<a href="#">M100A to M100M</a>	Plastic Axial	DO-204AL (DO-41)	50 to 1000	1.0 / 1.1	1.0
1.0	<a href="#">MPG06A to MPG06M</a>	Plastic Axial <sup>(2)</sup>	MPG06	50 to 1000	1.1	1.0
1.0	<a href="#">S1A to S1M</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	50 to 1000	1.1	1.0
<b>1.0</b>	<b><a href="#">S1PB to S1PM</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-220AA (SMP)</b>	<b>100 to 1000</b>	<b>1.1</b>	<b>1.0</b>
<b>2.0</b>	<b><a href="#">SA2B to SA2M</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-214AC (SMA)</b>	<b>100 to 1000</b>	<b>1.1</b>	<b>2.0</b>
1.5	<a href="#">1N5391 to 1N5399</a>	Plastic Axial	DO-204AC (DO-15)	50 to 1000	1.4	1.5
1.5	<a href="#">1N5391GP to 1N5399GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	50 to 1000	1.4	1.5
1.5	<a href="#">BY448GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	1650	1.6	3.0
1.5	<a href="#">CGP15</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	1400	1.1	1.0
1.5	<a href="#">DGP15</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	1500	1.1	1.0
1.5	<a href="#">GP15A to GP15M</a>	SUPERRECTIFIER <sup>®</sup> Axial	DO-204AC (DO-15)	50 to 1000	1.1	1.5
1.5	<a href="#">S07D</a>	SMF	DO-219AB	200	1.1	1.0
1.5	<a href="#">S07G</a>	SMF	DO-219AB	400	1.1	1.0

Note:

1. Bold text indicates new product

2. Glass passivated die

"x" designates a number that indicates voltage or is part of a sequence  
 "y" designates reverse voltage, where:

A = 50 V, B = 100 V, C = 150 V, D = 200 V, F = 300 V, G = 400 V,  
 H = 500 V, J = 600 V, K = 800 V, M = 1000 V, N = 1100 V, Q = 1200 V,  
 T = 1300 V, V = 1400 V, W = 1500 V, and Y = 1600 V



## Standard and Fast Recovery Rectifiers

Standard Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family	Type		(V)	(A)
1.5	<a href="#">S07J</a>	SMF	DO-219AB	600	1.1	1.0
1.5	<a href="#">S07M</a>	SMF	DO-219AB	1000	1.1	1.0
<b>2.0</b>	<b><a href="#">SB2D to SB2M</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-214AA (SMB)</b>	<b>200 to 1000</b>	<b>1.15</b>	<b>2.0</b>
2.5	<a href="#">BY228GP</a>	SUPERRECTIFIER <sup>®</sup> Axial	DO-201AD	1500	1.6	2.5
3.0	<a href="#">1N5400 to 1N5408</a>	Plastic Axial	DO-201AD	50 to 1000	1.2	3.0
3.0	<a href="#">1N5624GP to 1N5627GP</a>	SUPERRECTIFIER Axial	DO-201AD	200 to 800	1.0	3.0
3.0	<a href="#">BY251GP to BY255GP</a>	SUPERRECTIFIER Axial	DO-201AD	200 to 1300	1.1	3.0
3.0	<a href="#">BY251P to BY255P</a>	Plastic Axial	DO-201AD	200 to 1300	1.1	3.0
3.0	<a href="#">CGP30</a>	SUPERRECTIFIER Axial	DO-201AD	1400	1.2	3.0
3.0	<a href="#">DGP30</a>	SUPERRECTIFIER Axial	DO-201AD	1500	1.2	3.0
3.0	<a href="#">GP30A to GP30M</a>	SUPERRECTIFIER Axial	DO-201AD	50 to 1000	1.1 / 1.2	3.0
3.0	<a href="#">GI500 to GI510</a>	Plastic Axial	DO-201AD	50 to 1000	1.1	9.4
3.0	<a href="#">P300A to P300M</a>	Plastic Axial	DO-201AD	50 to 1000	1.2	3.0
3.0	<a href="#">S3A to S3M</a>	Plastic SMD <sup>(2)</sup>	DO-214AB (SMC)	50 to 1000	1.15	2.5
<b>4.0</b>	<b><a href="#">S4PB to S4PM</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>TO-277A (SMPC)</b>	<b>100 to 1000</b>	<b>1.10</b>	<b>4.0</b>
<b>5.0</b>	<b><a href="#">S5A to S5M</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-214AB (SMC)</b>	<b>50 to 1000</b>	<b>1.15</b>	<b>5.0</b>
<b>5.0</b>	<b><a href="#">S5MS</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-214AB (SMC)</b>	<b>1000</b>	<b>1.15</b>	<b>5.0</b>
<b>5.0</b>	<b><a href="#">S5PMS</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>TO-277A (SMPC)</b>	<b>1000</b>	<b>1.15</b>	<b>5.0</b>
6.0	<a href="#">GI750 to GI758</a>	Plastic Axial	P600	50 to 800	0.90 / 0.95	6.0
<b>6.0</b>	<b><a href="#">GPP60A to GPP60G</a></b>	<b>Plastic Axial<sup>(2)</sup></b>	<b>P600</b>	<b>50 to 400</b>	<b>1.1</b>	<b>6.0</b>
6.0	<a href="#">P600A to P600M</a>	Plastic Axial	P600	50 to 1000	0.9 / 1.0	6.0
8.0	<a href="#">NS8AT to NS8MT</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	50 to 1000	1.1	8.0
8.0	<a href="#">NSB8AT to NSB8MT</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	50 to 1000	1.1	8.0
8.0	<a href="#">NSF8AT to NSF8MT</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	50 to 1000	1.1	8.0

Note:

1. Bold text indicates new product

2. Glass passivated die

"x" designates a number that indicates voltage or is part of a sequence

"y" designates reverse voltage, where:

A = 50 V, B = 100 V, C = 150 V, D = 200 V, F = 300 V, G = 400 V,

H = 500 V, J = 600 V, K = 800 V, M = 1000 V, N = 1100 V, Q = 1200 V,

T = 1300 V, V = 1400 V, W = 1500 V, and Y = 1600 V



# RECTIFIERS

## Standard and Fast Recovery Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

### Standard Avalanche Rated Sinterglass Diodes

Part Number	$V_R$ $V_{RRM}$ $V_{RWM}$ (V)	$I_{FAV}$ (A)	$I_{FSM}$ at $t_p = 10$ ms (A)	$V_F$ 25 °C (V)	At $I_F$ (A)	$I_R$ at $T_j$ 25 °C ( $\mu$ A)	$I_R$ High Temp. ( $\mu$ A)	At $T_j$ (°C)	$T_j, T_{STG}$ Min. (°C)	$T_j, T_{STG}$ Max. (°C)	$t_{rr}$ Max. (ns)	$E_R$ (mJ)	At $I_R$ (A)	$C_D$ at $V_R = 4$ V
<a href="#">1N5059</a>	200	2.0	50	1.0	1.0	1	100	150	- 55	175	4	20	1.0	18
<a href="#">1N5060</a>	400	2.0	50	1.0	1.0	1	100	150	- 55	175	4	20	1.0	18
<a href="#">1N5061</a>	600	2.0	50	1.0	1.0	1	100	150	- 55	175	4	20	1.0	18
<a href="#">1N5062</a>	800	2.0	50	1.0	1.0	1	100	150	- 55	175	4	20	1.0	18
<a href="#">BY448</a>	1500	2.0	30	1.6	3.0	3	140	140	- 55	175 <sup>(1)</sup>	2	10	0.4	-
<a href="#">BY458</a>	1200	2.0	30	1.6	3.0	3	140	140	- 55	175 <sup>(1)</sup>	2	10	0.4	-
<a href="#">BY527</a>	800	2.0	50	1.0	1.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYT51A</a>	50	1.5	50	1.1	1.0	1	100	150	- 55	175	4	20	1.0	-
<a href="#">BYT51B</a>	100	1.5	50	1.1	1.0	1	100	150	- 55	175	4	20	1.0	-
<a href="#">BYT51D</a>	200	1.5	50	1.1	1.0	1	100	150	- 55	175	4	20	1.0	-
<a href="#">BYT51G</a>	400	1.5	50	1.1	1.0	1	100	150	- 55	175	4	20	1.0	-
<a href="#">BYT51J</a>	600	1.5	50	1.1	1.0	1	100	150	- 55	175	4	20	1.0	-
<a href="#">BYT51K</a>	800	1.5	50	1.1	1.0	1	100	150	- 55	175	4	20	1.0	-
<a href="#">BYT51M</a>	1000	1.5	50	1.1	1.0	1	100	150	- 55	175	4	20	1.0	-
<a href="#">BYT62</a>	2400	0.35	10	3.0	0.2	5	250	175	- 55	190 <sup>(2)</sup>	5	60	1.0	-
<a href="#">BY228</a>	1500	3.0	50	1.5	5.0	5	140	140	- 55	175 <sup>(1)</sup>	2	10	0.4	-
<a href="#">BY228-13</a>	1000	3.0	50	1.5	5.0	5	140	140	- 55	175 <sup>(1)</sup>	2	10	0.4	-
<a href="#">BY228-15</a>	1200	3.0	50	1.5	5.0	5	140	140	- 55	175 <sup>(1)</sup>	2	10	0.4	-
<a href="#">BYW52</a>	200	2.0	50	1.0	1.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW53</a>	400	2.0	50	1.0	1.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW54</a>	600	2.0	50	1.0	1.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW55</a>	800	2.0	50	1.0	1.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW56</a>	1000	2.0	50	1.0	1.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW82</a>	200	3.0	100	1.0	3.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW83</a>	400	3.0	100	1.0	3.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW84</a>	600	3.0	100	1.0	3.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW85</a>	800	3.0	100	1.0	3.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYW86</a>	1000	3.0	100	1.0	3.0	1	10	100	- 55	175	4	20	1.0	-
<a href="#">BYX82</a>	200	2.0	50	1.0	1.0	1	25	100	- 55	175	4	-	-	-
<a href="#">BYX83</a>	400	2.0	50	1.0	1.0	1	25	100	- 55	175	4	-	-	-
<a href="#">BYX84</a>	600	2.0	50	1.0	1.0	1	25	100	- 55	175	4	-	-	-
<a href="#">BYX85</a>	800	2.0	50	1.0	1.0	1	25	100	- 55	175	4	-	-	-
<a href="#">BYX86</a>	1000	2.0	50	1.0	1.0	1	25	100	- 55	175	4	-	-	-
<a href="#">S330D</a>	1000	2.0	50	1.65	10.0	5	50	100	- 55	175	4	20	1.0	-

Note:

$E_R$  = pulse energy in avalanche mode

1.  $T_j = 140$  °C

2.  $T_j = 175$  °C



**High-Voltage Standard Recovery Diodes – Plastics**

I <sub>F(AV)</sub> (A)	Device <sup>(3)(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
			Family	Type		(V)	(A)
8.0	<a href="#">VS-8EWS02SxPBF and VS-8EWS12SxPBF</a>	I	Power Plastic SMD <sup>(2)</sup>	TO-252 (DPAK)	800 - 1200	1.10	8.0
8.0	<a href="#">VS-8EWS02Sx-M3 and VS-8EWS12Sx-M3<sup>(6)</sup></a>	I	<b>Power Plastic SMD<sup>(2)</sup></b>	<b>TO-252 (DPAK)</b>	<b>800 - 1200</b>	<b>1.10</b>	<b>8.0</b>
8.0	<a href="#">VS-8EWS16SxPBF</a>	I	Power Plastic SMD <sup>(2)</sup>	TO-252 (DPAK)	1600	1.10	8.0
8.0	<a href="#">VS-8EWS16Sx-M3<sup>(6)</sup></a>	I	<b>Power Plastic SMD<sup>(2)</sup></b>	<b>TO-252 (DPAK)</b>	<b>1600</b>	<b>1.10</b>	<b>8.0</b>
10.0	<a href="#">VS-10ETS08PBF and VS-10ETS12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	800 - 1200	1.10	10.0
10.0	<a href="#">VS-10ETS08-M3 and VS-10ETS12-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-220AC</b>	<b>800 - 1200</b>	<b>1.10</b>	<b>10.0</b>
10.0	<a href="#">VS-10ETS08FPPBF and VS-10ETS12FPPBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	800 - 1200	1.10	10.0
10.0	<a href="#">VS-10ETS08FP-M3 and VS-10ETS12FP-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-220AC FULL-PAK</b>	<b>800 - 1200</b>	<b>1.10</b>	<b>10.0</b>
10.0	<a href="#">VS-10ETS08SxPBF<sup>(6)</sup> to VS-10ETS12SxPBF<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	800 - 1200	1.10	10
20.0	<a href="#">VS-20ETS08PBF and VS-20ETS12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	800 - 1200	1.10	20.0
20.0	<a href="#">VS-20ETS08-M3 and VS-20ETS12-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-220AC</b>	<b>800 - 1200</b>	<b>1.10</b>	<b>20.0</b>
20.0	<a href="#">VS-20ETS16PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	1600	1.10	20.0
20.0	<a href="#">VS-20ETS16-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-220AC</b>	<b>1600</b>	<b>1.10</b>	<b>20.0</b>
20.0	<a href="#">VS-20ATS08PBF and VS-20ATS12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AB	800 - 1200	1.10	20.0
20.0	<a href="#">VS-20ATS08-M3 and VS-20ATS12-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-220AB</b>	<b>800 - 1200</b>	<b>1.10</b>	<b>20.0</b>
20.0	<a href="#">VS-20ETS08FPPBF and VS-20ETS12FPPBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	800 - 1200	1.10	20.0
20.0	<a href="#">VS-20ETS08FP-M3 and VS-20ETS12FP-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-220AC FULL-PAK</b>	<b>800 - 1200</b>	<b>1.10</b>	<b>20.0</b>
20.0	<a href="#">VS-20ETS08SxPBF<sup>(6)</sup> to VS-20ETS12SxPBF<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	800 - 1200	1.10	20
25.0	<a href="#">VS-25ETS08SxPBF<sup>(6)</sup> to VS-25ETS12SxPBF<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	800 - 1200	1.14	25
40.0	<a href="#">VS-40EPS08PBF and VS-40EPS12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	800 - 1200	1.10	40.0
40.0	<a href="#">VS-40EPS08-M3 and VS-40EPS12-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-247AC modified (2 pins)</b>	<b>800 - 1200</b>	<b>1.10</b>	<b>40.0</b>
40.0	<a href="#">VS-40EPS16PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1600	1.14	40.0
40.0	<a href="#">VS-40EPS16-M3<sup>(6)</sup></a>	I	<b>Power Plastic Through Hole<sup>(2)</sup></b>	<b>TO-247AC modified (2 pins)</b>	<b>1600</b>	<b>1.14</b>	<b>40.0</b>
60.0	<a href="#">VS-60EPS08PBF and VS-60EPS12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	800 - 1200	1.09	60.0

Note:

1. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
2. Single die device
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented

4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free



## High-Voltage Standard Recovery Diodes – Plastics, continued

$I_{F(AV)}$ (A)	Device <sup>(3)(5)</sup>	Source <sup>(4)</sup>	Package		$V_{(BR)}$ Range (V)	Max $V_F$ at $I_F$	
			Family	Type		(V)	(A)
60.0	<a href="#">VS-60EPS08-M3 and VS-60EPS12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	<b>TO-247AC modified (2 pins)</b>	800 - 1200	1.09	60.0
60.0	<a href="#">VS-60EPS16PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1600	1.07	60.0
60.0	<a href="#">VS-60EPS16-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1600	1.07	60.0
80.0	<a href="#">VS-80APS08PBF and VS-80APS12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	800 - 1200	1.17	80.0
80.0	<a href="#">VS-80APS08-M3 and VS-80APS12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	<b>TO-247AC modified (2 pins)</b>	800 - 1200	1.17	80.0
80.0	<a href="#">VS-80APS16PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1600	1.17	80.0
80.0	<a href="#">VS-80APS16-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	<b>TO-247AC modified (2 pins)</b>	1600	1.17	80.0

## Note:

- Dual center-tapped device ( $V_F$  limit at  $I_F$  is per diode)
- Single die device
- x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented

- Source: I = formerly International Rectifier Diode unit
- Bold text indicates new product
- Halogen free



**RECTIFIERS**

Standard and Fast Recovery Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

**ESD Capability Rectifiers (Standard)**

I <sub>F(AV)</sub> (A)	Device <sup>(1)(3)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>	
		Family	Type		(V)	(A)
0.7	<a href="#">SE07PB to SE07PJ</a>	Plastic SMD <sup>(2)</sup>	DO-220AA (SMP)	100 to 600	1.05	0.7
1.0	<a href="#">SE10PB to SE10PJ</a>	Plastic SMD <sup>(2)</sup>	DO-220AA (SMP)	100 to 600	1.05	1.0
1.0	<a href="#">MSE1PB to MSE1PJ</a>	Plastic SMD <sup>(2)</sup>	MicroSMP	100 to 600	1.10	1.0
1.5	<a href="#">SE15PB to SE15PJ</a>	Plastic SMD <sup>(2)</sup>	DO-220AA (SMP)	100 to 600	1.05	1.5

Note:

- 1. Bold text indicates new product  
Reverse voltage, where: A = 50 V, B = 100 V, C = 150 V, D = 200 V,  
F = 300 V, G = 400 V, H = 500 V, J = 600 V
- 2. Oxide planar die

- 3. Accordance with IEC61000-4-2, Human body model (contact mode):  
> 8 kV, Human body model (air-discharge mode): >15 kV



## Standard and Fast Recovery Rectifiers

**Fast Recovery Rectifiers** are used for applications requiring reverse recovery times in the range of 100 ns to 750 ns. Typical uses are low-frequency SMPS, motor controllers, and electronic ballasts. These products are offered in axial, surface-mount, and power packages.

$I_{F(AV)}$ (A)	Device <sup>(1)</sup>	Package		$V_{(BR)}$ Range (V)	Max $V_F$ at $I_F$		$T_{rr}$ (ns)
		Family	Type		(V)	(A)	
0.5	<a href="#">GHR16</a>	Plastic Axial	R-1 (Pho-flash diode)	1600	1.5	0.5	300
0.5	<a href="#">RGL34A to RGL34K</a>	SUPERRECTIFIER <sup>®</sup> SMD	DO-213AA (MiniMELF)	50 to 600	1.3	0.5	150 to 250
0.5	<a href="#">RGP02-12E to RGP02-20E</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	1200 to 2000	1.8	0.1	300
1.0	<a href="#">1N4933 to 1N4937</a>	Plastic Axial	DO-204AL (DO-41)	50 to 600	1.2	1.0	200
1.0	<a href="#">1N4933GP to 1N4937GP</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	50 to 600	1.2	1.0	200
1.0	<a href="#">1N4942GP to 1N4948GP</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	200 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">1N5615GP to 1N5623GP</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	200 to 1000	1.2	1.0	150 to 500
1.0	<a href="#">BA157 to BA159</a>	Plastic Axial	DO-204AL (DO-41)	400 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">BA157GP to BA159GP</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	400 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">BYM11-50 to BYM11-1000</a>	SUPERRECTIFIER SMD	DO-213AB (MELF)	50 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">GI810 to GI818</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	50 to 1000	1.2	1.0	750
1.0	<a href="#">RGF1A to RGF1M</a>	SUPERRECTIFIER SMD	DO-214BA (GF1)	50 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">RGL41A to RGL41M</a>	SUPERRECTIFIER SMD	DO-213AB (MELF)	50 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">RGP10A to RGP10M</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	50 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">RGP10AE to RGP10ME</a>	SUPERRECTIFIER Axial	DO-204AL (DO-41)	50 to 1000	1.3	1.0	150 to 500
1.0	<a href="#">RMPG06A to RMPG06K</a>	Plastic Axial <sup>(2)</sup>	MPG06	50 to 800	1.3	1.0	150 to 250
1.0	<a href="#">RS1A to RS1K</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	50 to 800	1.3	1.0	150 to 500
<b>1.0</b>	<b><a href="#">RS1PB to RS1PJ</a></b>	<b>Plastic SMD<sup>(2)</sup></b>	<b>DO-220AA (SMP)</b>	<b>100 to 600</b>	<b>1.3</b>	<b>1.0</b>	<b>150 to 250</b>
1.0	<a href="#">SRP100A to SRP100K</a>	Plastic Axial	DO-204AL (DO-41)	50 to 800	1.3	1.0	100 to 200
1.4	<a href="#">RS07B</a>	SMF	DO-219AB	100	1.15	0.7	150
1.4	<a href="#">RS07D</a>	SMF	DO-219AB	200	1.15	0.7	150
1.4	<a href="#">RS07G</a>	SMF	DO-219AB	400	1.15	0.7	150
1.4	<a href="#">RS07J</a>	SMF	DO-219AB	600	1.15	0.7	250
1.4	<a href="#">RS07K</a>	SMF	DO-219AB	800	1.3	1.0	300
1.5	<a href="#">BYG21K and BYG21M</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	800 to 1000	1.5 / 1.6	1.0 / 1.5	120
1.5	<a href="#">BYG24D to BYG24J</a>	Plastic SMD <sup>(2)</sup>	DO-214AC (SMA)	200 to 600	1.15 / 1.25	1.0 / 1.5	140
1.5	<a href="#">RGP15A to RGP15M</a>	SUPERRECTIFIER Axial	DO-204AC (DO-15)	50 to 1000	1.3	1.5	150 to 500
1.5	<a href="#">RS2A to RS2K</a>	Plastic SMD <sup>(2)</sup>	DO-214AA (SMB)	50 to 800	1.3	1.5	150 to 500
2.0	<a href="#">BY296P to BY299P</a>	Plastic Axial	DO-201AD	100 to 800	1.3	3.0	500
2.5	<a href="#">RGP25A to RGP25M</a>	SUPERRECTIFIER Axial	DO-201AD	50 to 1000	1.3	2.5	150 to 500
3.0	<a href="#">BY396P to BY399P</a>	Plastic Axial	DO-201AD	100 to 800	1.25	3.0	500
3.0	<a href="#">GI850 to GI856</a>	Plastic Axial	DO-201AD	50 to 600	1.25	3.0	200
3.0	<a href="#">GI910 to GI917</a>	Plastic Axial	DO-201AD	50 to 800	1.25	3.0	750
3.0	<a href="#">RGP30A to RGP30M</a>	SUPERRECTIFIER <sup>®</sup> Axial	DO-201AD	50 to 1000	1.3	3.0	150 to 500

Note:

1. Bold text indicates new product
2. Glass passivated die

**RECTIFIERS****Standard and Fast Recovery Rectifiers**

## Fast Recovery Rectifiers, continued

$I_{F(AV)}$ (A)	Device <sup>(1)</sup>	Package		$V_{(BR)}$ Range (V)	Max $V_F$ at $I_F$		$T_{rr}$ (ns)
		Family	Type		(V)	(A)	
3.0	<a href="#">RS3A to RS3K</a>	Plastic SMD <sup>(2)</sup>	DO-214AB (SMC)	50 to 800	1.3	2.5	150 to 500
3.0	<a href="#">SRP300A to SRP300K</a>	Plastic Axial	DO-201AD	50 to 800	1.3	3.0	100 to 200
5.0	<a href="#">BY500-100 to BY500-800</a>	Plastic Axial	DO-201AD	100 to 800	1.35	5.0	200
5.0	<a href="#">GI820 to GI828</a>	Plastic Axial	P600	50 to 800	1.1	5.0	200
6.0	<a href="#">SRP600A to SRP600K</a>	Plastic Axial	P600	50 to 800	1.3	6.0	100 to 200
8.0	<a href="#">BY229-200 to BY229-800</a>	Plastic Power Pack <sup>(2)</sup>	TO-220AC	200 to 800	1.85	20.0	145
8.0	<a href="#">BY229X-200 to BY229X-800</a>	Isolated Power Pack <sup>(2)</sup>	ITO-220AC	200 to 800	1.85	20.0	145
8.0	<a href="#">BY229B-200 to BY229B-800</a>	Power Pack SMD <sup>(2)</sup>	TO-263AB (D <sup>2</sup> PAK)	200 to 800	1.85	20.0	145

Note:

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# RECTIFIERS

## Standard and Fast Recovery Rectifiers



Rectifiers - Worldwide Leader in Power Rectifiers

### Fast Soft Recovery Rectifiers

I <sub>F(AV)</sub> (A)	Device <sup>(3)(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>rr</sub> at see setup		Typ Q <sub>rr</sub> at see setup	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
8.0	<a href="#">VS-8EWF02SxPBF to VS-8EWS06SxPBF</a>	I	Power Plastic SMD <sup>(2)</sup>	TO-252 (DPAK)	200 - 600	1.2	8	140	8 A, 25 A/us	0.25	
8.0	<a href="#">VS-8EWF02Sx-M3 to VS-8EWS06Sx-M3<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)</sup>	TO-252 (DPAK)	200 - 600	1.2	8	140	8 A, 25 A/us	0.25	
8.0	<a href="#">VS-8EWF10SxPBF and VS-8EWS12SxPBF</a>	I	Power Plastic SMD <sup>(2)</sup>	TO-252 (DPAK)	1000 - 1200	1.3	8	270	8 A, 25 A/us	1	
8.0	<a href="#">VS-8EWF10Sx-M3 and VS-8EWS12Sx-M3<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)</sup>	TO-252 (DPAK)	1000 - 1200	1.3	8	270	8 A, 25 A/us	1	
10.0	<a href="#">VS-10ETF02PBF to VS-10ETF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	200 - 600	1.2	10	145	10 A, 25 A/us	0.32	
10.0	<a href="#">VS-10ETF02-M3<sup>(6)</sup> to VS-10ETF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	200 - 600	1.2	10	145	10 A, 25 A/us	0.32	
10.0	<a href="#">VS-10ETF10PBF and VS-10ETF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	1000 - 1200	1.33	10	310	10 A, 25 A/us	1.05	
10.0	<a href="#">VS-10ETF10-M3<sup>(6)</sup> and VS-10ETF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	1000 - 1200	1.33	10	310	10 A, 25 A/us	1.05	
10.0	<a href="#">VS-10ETF02FPPBF to VS-10ETF06FPPBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	200 - 600	1.2	10	145	10 A, 25 A/us	0.32	
10.0	<a href="#">VS-10ETF02FP-M3<sup>(6)</sup> to VS-10ETF06FP-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	200 - 600	1.2	10	145	10 A, 25 A/us	0.32	
10.0	<a href="#">VS-10ETF10FPPBF and VS-10ETF12FPPBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	1000 - 1200	1.33	10	310	10 A, 25 A/us	1.05	
10.0	<a href="#">VS-10ETF10FPPBF<sup>(6)</sup> and VS-10ETF12FPPBF<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	1000 - 1200	1.33	10	310	10 A, 25 A/us	1.05	
10.0	<a href="#">VS-10ETF02SxPBF<sup>(6)</sup> to VS-10ETF06SxPBF<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200 - 600	1.2	10	145	10 A, 25 A/us	0.32	
10.0	<a href="#">VS-10ETF10SxPBF<sup>(6)</sup> and VS-10ETF12SxPBF<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	1000 - 1200	1.33	10	310	10 A, 25 A/us	1.05	
20.0	<a href="#">VS-20ETF02PBF to VS-20ETF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	200 - 600	1.3	20	160	20 A, 100 A/us	1.25	
20.0	<a href="#">VS-20ETF02-M3<sup>(6)</sup> to VS-20ETF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	200 - 600	1.3	20	160	20 A, 100 A/us	1.25	
20.0	<a href="#">VS-20ETF08PBF to VS-20ETF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	800 - 1200	1.31	20	400	20 A, 25 A/us	1.7	
20.0	<a href="#">VS-20ETF08-M3<sup>(6)</sup> to VS-20ETF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC	800 - 1200	1.31	20	400	20 A, 25 A/us	1.7	

Note:

1. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
2. Single die device
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
TRR = tape and reel right oriented

4. Source: I = formerly International Rectifier Diode unit
5. Bold text indicates new product
6. Halogen free

Fast Soft Recovery Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(3)(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>rr</sub> at see setup		Typ Q <sub>rr</sub> at see setup	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
20.0	<a href="#">VS-20ETF02FPPBF to VS-20ETF06FPPBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	200 - 600	1.3	20	160	20 A, 100 A/us	1.25	
20.0	<a href="#">VS-20ETF02FP-M3<sup>(6)</sup> to VS-20ETF06FP-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	200 - 600	1.3	20	160	20 A, 100 A/us	1.25	
20.0	<a href="#">VS-20ETF10FPPBF and VS-20ETF12FPPBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	1000 - 1200	1.31	20	400	20 A, 25 A/us	1.7	
20.0	<a href="#">VS-20ETF10FP-M3<sup>(6)</sup> and VS-20ETF12FP-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-220AC FULL-PAK	1000 - 1200	1.31	20	400	20 A, 25 A/us	1.7	
20.0	<a href="#">VS-20ETF02SxPBF<sup>(6)</sup> to VS-20ETF06SxPBF<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	200 - 600	1.3	20	160	20 A, 100 A/us	1.25	
20.0	<a href="#">VS-20ETF08SxPBF<sup>(6)</sup> to VS-20ETF12SxPBF<sup>(6)</sup></a>	I	Power Plastic SMD <sup>(2)(6)</sup>	TO-263AB (D <sup>2</sup> PAK)	800 - 1200	1.31	20	400	20 A, 25 A/us	1.7	
30.0	<a href="#">VS-30APF02PBF to VS-30APF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	200 - 600	1.41	30	160	20 A, 100 A/us	1.25	
30.0	<a href="#">VS-30APF02-M3<sup>(6)</sup> to VS-30APF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	200 - 600	1.41	30	160	20 A, 100 A/us	1.25	
30.0	<a href="#">VS-30EPF02PBF to VS-30EPF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	200 - 600	1.41	30	160	20 A, 100 A/us	1.25	
30.0	<a href="#">VS-30EPF02-M3<sup>(6)</sup> to VS-30EPF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	200 - 600	1.41	30	160	20 A, 100 A/us	1.25	
30.0	<a href="#">VS-30APF10PBF and VS-30APF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	1000 - 1200	1.41	30	450	30 A, 25 A/us	2.16	
30.0	<a href="#">VS-30APF10-M3<sup>(6)</sup> and VS-30APF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	1000 - 1200	1.41	30	450	30 A, 25 A/us	2.16	
30.0	<a href="#">VS-30EPF10PBF and VS-30EPF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1000 - 1200	1.41	30	450	30 A, 25 A/us	2.16	
30.0	<a href="#">VS-30EPF10-M3<sup>(6)</sup> and VS-30EPF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1000 - 1200	1.41	30	450	30 A, 25 A/us	2.16	
40.0	<a href="#">VS-40EPF02PBF to VS-40EPF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	200 - 600	1.25	40	180	40 A, 25 A/us	0.5	
40.0	<a href="#">VS-40EPF02-M3<sup>(6)</sup> to VS-40EPF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	200 - 600	1.25	40	180	40 A, 25 A/us	0.5	

Note:

1. Dual center-tapped device (V<sub>F</sub> limit at I<sub>F</sub> is per diode)
2. Single die device
3. x designates tube or tape&reel version on SMD products  
none = tube  
TR = tape and reel centered (for DPAK only)  
TRL = tape and reel left oriented  
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# RECTIFIERS

## Standard and Fast Recovery Rectifiers



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Fast Soft Recovery Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(3)(5)</sup>	Source <sup>(4)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub>		Typ t <sub>r</sub> at see setup		Typ Q <sub>rr</sub> at see setup	
			Family	Type		(V)	(A)	(ns)	setup (I <sub>F</sub> , di <sub>F</sub> /dt, V <sub>R</sub> )	(nC)	
40.0	<a href="#">VS-40EPF10PBF and VS-40EPF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1000 - 1200	1.4	40	450	10 A, 25 A/us	1.8	
40.0	<a href="#">VS-40EPF10-M3<sup>(6)</sup> and VS-40EPF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1000 - 1200	1.4	40	450	10 A, 25 A/us	1.8	
60.0	<a href="#">VS-60APF02PBF to VS-60CPF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	200 - 600	1.3	60	180	60 A, 25 A/us	0.5	
60.0	<a href="#">VS-60APF02-M3<sup>(6)</sup> to VS-60CPF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	200 - 600	1.3	60	180	60 A, 25 A/us	0.5	
60.0	<a href="#">VS-60EPF02PBF to VS-60EPF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	200 - 600	1.3	60	180	60 A, 25 A/us	0.5	
60.0	<a href="#">VS-60EPF02-M3<sup>(6)</sup> to VS-60EPF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	200 - 600	1.3	60	180	60 A, 25 A/us	0.5	
60.0	<a href="#">VS-60APF10PBF and VS-60APF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	1000 - 1200	1.4	60	480	60 A, 25 A/us	2.7	
60.0	<a href="#">VS-60APF10-M3<sup>(6)</sup> and VS-60APF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	1000 - 1200	1.4	60	480	60 A, 25 A/us	2.7	
60.0	<a href="#">VS-60EPF10PBF and VS-60EPF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1000 - 1200	1.4	60	480	60 A, 25 A/us	2.7	
60.0	<a href="#">VS-60EPF10-M3<sup>(6)</sup> and VS-60EPF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC modified (2 pins)	1000 - 1200	1.4	60	480	60 A, 25 A/us	2.7	
80.0	<a href="#">VS-80APF02PBF to VS-80EPF06PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	200 - 600	1.25	80	190	40 A, 25 A/us	0.5	
80.0	<a href="#">VS-80APF02-M3<sup>(6)</sup> to VS-80EPF06-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	200 - 600	1.25	80	190	40 A, 25 A/us	0.5	
80.0	<a href="#">VS-80APF10PBF and VS-80EPF12PBF</a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	1000 - 1200	1.35	80	480	80 A, 25 A/us	2.1	
80.0	<a href="#">VS-80APF10-M3<sup>(6)</sup> and VS-80EPF12-M3<sup>(6)</sup></a>	I	Power Plastic Through Hole <sup>(2)</sup>	TO-247AC	1000 - 1200	1.35	80	480	80 A, 25 A/us	2.1	
85.0	<a href="#">VS-85EPF12</a>		Power Plastic Through Hole <sup>(2)</sup>	POWERTAB™	1200	1.36	85	480	85 A, 25 A/us	2.1	

Note:

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none = tube  
TR = tape and reel centered (for DPAK only)  
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# RECTIFIERS

## Standard and Fast Recovery Rectifiers



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### Fast Avalanche Rated Sinterglass Diodes

Part Number	$V_R$ $V_{RRM}$ $V_{RWM}$ (V)	$I_{FAV}$ (A)	$I_{FSM}$ at $t_p = 10$ ms (A)	$V_F$ 25 °C (V)	At $I_F$ (A)	$I_R$ at $T_j$ 25 °C ( $\mu$ A)	$I_R$ High Temp. ( $\mu$ A)	At $T_j$ (°C)	$T_j, T_{STG}$ Min. (°C)	$T_j, T_{STG}$ Max. (°C)	$t_{rr}$ Max. (ns)	$E_R$ (mJ)	At $I_R$ (A)
<a href="#">BY203-12S</a>	1200	0.25	20	2.4	0.2	2	–	–	- 55	175 <sup>(1)</sup>	300	10	0.4
<a href="#">BY203-16S</a>	1600	0.25	20	2.4	0.2	2	–	–	- 55	175 <sup>(1)</sup>	300	10	0.4
<a href="#">BY203-20S</a>	2000	0.25	20	2.4	0.2	2	–	–	- 55	175 <sup>(1)</sup>	300	10	0.4
<a href="#">BY268</a>	1400	0.8	20	1.25	0.4	2	15	100	- 55	175	400	10	0.4
<a href="#">BY269</a>	1600	0.8	20	1.25	0.4	2	15	100	- 55	175	400	10	0.4
<a href="#">BYT52A</a>	50	1.4	50	1.3	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYT52B</a>	100	1.4	50	1.3	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYT52D</a>	200	1.4	50	1.3	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYT52G</a>	400	1.4	50	1.3	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYT52J</a>	600	1.4	50	1.3	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYT52K</a>	800	1.4	50	1.3	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYT52M</a>	1000	1.4	50	1.3	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYT54A</a>	50	1.25	30	1.5	1.0	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT54B</a>	100	1.25	30	1.5	1.0	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT54D</a>	200	1.25	30	1.5	1.0	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT54G</a>	400	1.25	30	1.5	1.0	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT54J</a>	600	1.25	30	1.5	1.0	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT54K</a>	800	1.25	30	1.5	1.0	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT54M</a>	1000	1.25	30	1.5	1.0	5	150	150	- 55	175	100	10	0.4
<a href="#">BYV12</a>	100	1.5	40	1.5	1.0	5	150	150	- 55	175	300	10	0.4
<a href="#">BYV13</a>	400	1.5	40	1.5	1.0	5	150	150	- 55	175	300	10	0.4
<a href="#">BYV14</a>	600	1.5	40	1.5	1.0	5	150	150	- 55	175	300	10	0.4
<a href="#">BYV15</a>	800	1.5	40	1.5	1.0	5	150	150	- 55	175	300	10	0.4
<a href="#">BYV16</a>	1000	1.5	40	1.5	1.0	5	150	150	- 55	175	300	10	0.4
<a href="#">BYV37</a>	800	2.0	50	1.1	1.0	5	150	150	- 55	175	300	10	0.4
<a href="#">BYV38</a>	1000	2.0	50	1.1	1.0	5	150	150	- 55	175	300	10	0.4
<a href="#">BYW32</a>	200	2.0	50	1.1	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW33</a>	300	2.0	50	1.1	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW34</a>	400	2.0	50	1.1	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW35</a>	500	2.0	50	1.1	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW36</a>	600	2.0	50	1.1	1.0	5	150	150	- 55	175	200	10	0.4
<a href="#">1N5417</a>	200	3	100	1.1	3	1	20	100	- 55	175	100	20	1
<a href="#">1N5418</a>	400	3	100	1.1	3	1	20	100	- 55	175	100	20	1
<a href="#">BYW172D</a>	200	3	100	1.1	3	1	20	100	- 55	175	100	20	1
<a href="#">BYW172F</a>	300	3	100	1.1	3	1	20	100	- 55	175	100	20	1
<a href="#">BYW172G</a>	400	3	100	1.1	3	1	20	100	- 55	175	100	20	1

Note:  
 $E_R$  = pulse energy in avalanche mode  
 1.  $T_j = 150$  °C

**RECTIFIERS****Standard and Fast Recovery Rectifiers**

Fast Avalanche Rated Sinterglass Diodes, continued

Part Number	$V_R$ $V_{RRM}$ $V_{RWM}$ (V)	$I_{FAV}$ (A)	$I_{FSM}$ at $t_p = 10$ ms (A)	$V_F$ 25 °C (V)	At $I_F$ (A)	$I_R$ at $T_j$ 25 °C ( $\mu$ A)	$I_R$ High Temp. ( $\mu$ A)	At $T_j$ (°C)	$T_j, T_{STG}$ Min. (°C)	$T_j, T_{STG}$ Max. (°C)	$t_{rr}$ Max. (ns)	$E_R$ (mJ)	At $I_R$ (A)
<a href="#">BYM36A</a>	200	3	65	1.6	3	5	100	150	- 55	175	100	20	1
<a href="#">BYM36B</a>	400	3	65	1.6	3	5	100	150	- 55	175	100	20	1
<a href="#">BYM36C</a>	600	3	65	1.6	3	5	100	150	- 55	175	100	20	1
<a href="#">BYM36D</a>	800	2.9	65	1.78	3	5	100	150	- 55	175	150	20	1
<a href="#">BYM36E</a>	1000	2.9	65	1.78	3	5	100	150	- 55	175	150	20	1
<a href="#">BYT56A</a>	50	3	80	1.4	3	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT56B</a>	100	3	80	1.4	3	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT56D</a>	200	3	80	1.4	3	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT56G</a>	400	3	80	1.4	3	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT56J</a>	600	3	80	1.4	3	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT56K</a>	800	3	80	1.4	3	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT56M</a>	1000	3	80	1.4	3	5	150	150	- 55	175	100	10	0.4
<a href="#">BYT77</a>	800	3	100	1.2	3	5	150	150	- 55	175	250	10	0.4
<a href="#">BYT78</a>	1000	3	100	1.2	3	5	150	150	- 55	175	250	10	0.4
<a href="#">BYW72</a>	200	3	100	1.1	3	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW73</a>	300	3	100	1.1	3	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW74</a>	400	3	100	1.1	3	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW75</a>	500	3	100	1.1	3	5	150	150	- 55	175	200	10	0.4
<a href="#">BYW76</a>	600	3	100	1.1	3	5	150	150	- 55	175	200	10	0.4

Note:

 $E_R$  = pulse energy in avalanche mode1.  $T_j = 150$  °C

Rectifiers - Worldwide Leader in Power Rectifiers



# RECTIFIERS

## Bridge Rectifiers



**Bridge Rectifiers** are essential for any electronic equipment which requires full wave rectification of an AC power source. The bridge rectifier is comprised of four separate rectifier components configured into a “bridge” arrangement in a single package. Vishay manufactures a complete line of bridge rectifiers including fast recovery, surface-mount, and single in-line types.

$I_{F(AV)}$ (A)	Device <sup>(1)</sup>	Source <sup>(2)</sup>	Package		$V_{(BR)}$ Range (V)	Max $V_F$ at $I_F$	
			Family	Type		(V)	(A)
1.2	1KAB10E to 1KAB100E	I	Single Phase Rectifier Bridge	KAB	50 - 1000	1.1	1.2
1.9	2KBB05 to 2KBB100	I	Single In-Line Phase Rectifier Bridge	KBB	50 - 1000	1.1	1.9
2	2KBP005 to 2KBP10	I	Single In-Line Phase Rectifier Bridge	KBP	50 - 1000	1.0	1.0
3	KBPC1005 to KBPC110	I	Single Phase Rectifier Bridge	KBPC	50 - 1000	1.1	1.5
6	KBPC6005 to KBPC610	I	Single Phase Rectifier Bridge	KBPC	50 - 1000	1.2	3.0
8	KBPC8005 to KBPC810	I	Single Phase Rectifier Bridge	KBPC	50 - 1000	1.0	3.0
25	GBPC2502A to GBPC2512A	I	GBPC with fast-on lugs	GBPC25A	200 - 1200	1.1	25
25	GBPC2502W to GBPC2512W	I	GBPC with wire leads	GBPC25W	200 - 1200	1.1	25
25	P131 to P135	I	Single Phase Fully-Controlled Bridge	PACE-PAK (D-19)	400 - 1200	1.35	79
25	26MB05A to 26MB160A	I	Single Phase Rectifier Bridge	MB (D-34)	50 - 1600	1.25	40
25	P121 to P125	I	Single Phase Semi-Controlled Bridge Doubler	PACE-PAK (D-19)	400 - 1200	1.35	79
25	P101 to P105 <sup>(4)(5)</sup>	I	Single Phase Semi-Controlled Bridge Common Cathode	PACE-PAK (D-19)	400 - 1200	1.35	79
25	26MT10 to 26MT160	I	Three Phase Bridge	MT (D-63)	100 - 1600	1.26	40
35	GBPC3502A to GBPC3512A	I	GBPC with Fast-On Lugs	GBPC35A	200 - 1200	1.1	35
35	GBPC3502W to GBPC3512W	I	GBPC with Wire Leads	GBPC35W	200 - 1200	1.1	35
35	36MB05A to 36MB160A	I	Single Phase Rectifier Bridge	MB (D-34)	50 - 1600	1.3	55
35	36MT10 to 36MT160	I	Three Phase Bridge	MT (D-63)	100 - 1600	1.19	40
40	P431 to P435	I	Single Phase Fully-Controlled Bridge	PACE-PAK (D-19)	400 - 1200	1.4	126
40	P421 to P425	I	Single Phase Semi-Controlled Bridge Doubler	PACE-PAK (D-19)	400 - 1200	1.4	126
40	P401 to P405 <sup>(4)(5)</sup>	I	Single Phase Semi-Controlled Bridge Common Cathode	PACE-PAK (D-19)	400 - 1200	1.4	126
40	40MT160KPBF	I	Three Phase Bridge	MTK (Screwable)	1600	2.0	100
45	40MT160PBPBF and 40MT160PAPBF	I	Three Phase Bridge	MTP.PA and MTP.PB	1600	1.45	40
50	54MT80KPBF to 54MT160KPBF	I	Three Phase AC Switch	MTK (Screwable)	800 - 1600	2.68	150
55	53MT80KPBF to 53MT160KPBF	I	Full-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	2.68	150
55	51MT80KPBF to 51MT160KPBF	I	Negative Half-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	2.68	150

Note:

1. Bold text indicates new product
2. Source: I = formerly International Rectifier Diode unit
3.  $V_F$  limits are per diode
4. Voltage suppressor available (identified by suffix “K”)

5. With both voltage suppression and freewheeling diode available (identified by suffix “KW”)



# RECTIFIERS

## Bridge Rectifiers



## Bridge Rectifiers, continued

$I_{F(AV)}$ (A)	Device <sup>(1)</sup>	Source <sup>(2)</sup>	Package		$V_{(BR)}$ Range (V)	Max $V_F$ at $I_F$	
			Family	Type		(V)	(A)
55	52MT80KPBF to 52MT160KPBF	I	Positive Half-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	2.68	150
60	60MT80KPBF to 60MT160KPBF	I	Three Phase Bridge	MTK (Screwable)	800 - 1600	1.75	100
70	70MT80KPBF to 70MT160KPBF	I	Three Phase Bridge	MTK (Screwable)	800 - 1600	1.6	100
75	70MT160PBPBF and 70MT160PAPBF	I	Three Phase Bridge	MTP..PA and MTP..PB	1600	1.45	70
75	100MT160PBPBF and 100MT160PAPBF	I	Three Phase Bridge	MTP..PA and MTP..PB	1600	1.51	100
90	93MT80KPBF to 93MT160KPBF	I	Full-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	1.65	150
90	113MT80KPBF to 113MT160KPBF	I	Full-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	1.57	150
90	91MT80KPBF to 91MT160KPBF	I	Negative Half-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	1.65	150
90	111MT80KPBF to 111MT160KPBF	I	Negative Half-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	1.57	150
90	92MT80KPBF to 92MT160KPBF	I	Positive Half-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	1.65	150
90	112MT80KPBF to 112MT160KPBF	I	Positive Half-Controlled Three Phase Bridge	MTK (Screwable)	800 - 1600	1.57	150
90	94MT80KPBF to 94MT160KPBF	I	Three Phase AC Switch	MTK (Screwable)	800 - 1600	1.55	150
90	90MT80KPBF to 90MT160KPBF	I	Three Phase Bridge	MTK (Screwable)	800 - 1600	1.6	150
100	104MT80KPBF to 104MT160KPBF	I	Three Phase AC Switch	MTK (Screwable)	800 - 1600	1.53	150
110	110MT80KPBF to 110MT160KPBF	I	Three Phase Bridge	MTK (Screwable)	800 - 1600	1.4	150
130	130MT80KPBF to 130MT160KPBF	I	Three Phase Bridge	MTK (Screwable)	800 - 1600	1.63	200
160	160MT80KPBF to 160MT160KPBF	I	Three Phase Bridge	MTK (Screwable)	800 - 1600	1.49	200
200	200MT40KPBF	I	Three Phase Bridge	MTK (Screwable)	400	1.4	200

## Note:

1. Bold text indicates new product
2. Source: I = formerly International Rectifier Diode unit
3.  $V_F$  limits are per diode
4. Voltage suppressor available (identified by suffix "K")

5. With both voltage suppression and freewheeling diode available (identified by suffix "KW")



Bridge Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub> <sup>(5)</sup>	
		Family	Type		(V)	(A)
0.5	<a href="#">MB2M, MB4M, and MB6M</a>	Mini-Bridge <sup>(2)</sup>	MBM	200 - 600	1.0	0.4
0.5	<a href="#">B2M, B4M, and B6M</a>	Mini-Bridge <sup>(2)</sup>	MBM	200 - 600	1.0	0.5
0.5	<a href="#">MB2S, MB4S, and MB6S</a>	Mini-Bridge (SMD) <sup>(2)</sup>	MBS (TO-269AA)	200 - 600	1.0	0.4
0.5	<a href="#">B2S, B4S and B6S</a>	Mini-Bridge (SMD) <sup>(2)</sup>	MBS (TO-269AA)	200 - 600	1.0	0.5
0.5	<a href="#">RMB2S and RMB4S</a>	Recovery Mini-Bridge (SMD) <sup>(2)</sup>	MBS (TO-269AA)	200 - 400	1.25	0.4
0.9	<a href="#">BxxC800DM</a>	Dual In-Line <sup>(2)</sup>	DFM	65 - 600	1.0	0.9
0.9	<a href="#">B40C800G to B380C800G</a>	WOG <sup>(2)</sup>	WG	65 - 600	1.0	0.9
1.0	<a href="#">B40C1000G to B380C1000G</a>	WOG <sup>(2)</sup>	WG	65 - 600	1.0	1.0
1.0	<a href="#">DF005M to DF10M</a>	Dual In-Line <sup>(2)</sup>	DFM	50 - 1000	1.1	1.0
1.0	<a href="#">DF005MA to DF10MA</a>	Dual In-Line <sup>(2)</sup>	DFM	50 - 1000	1.1	1.0
1.0	<a href="#">DF005S to DF10S</a>	Dual In-Line (SMD) <sup>(2)</sup>	DFS	50 - 1000	1.1	1.0
1.0	<a href="#">DF005SA to DF10SA</a>	Dual In-Line (SMD) <sup>(2)</sup>	DFS	50 - 1000	1.1	1.0
1.0	<a href="#">EDF1AM to EDF1DM</a>	Ultrafast Dual In-Line <sup>(2)(3)</sup>	DFM	50 - 200	1.05	1.0
1.0	<a href="#">EDF1AS to EDF1DS</a>	Ultrafast Dual In-Line (SMD) <sup>(2)(3)</sup>	DFS	50 - 200	1.05	1.0
1.5	<a href="#">3N246 to 3N252</a>	Single In-Line <sup>(2)</sup>	KBPM	50 - 1000	1.0 / 1.3	1.0 / 1.57
1.5	<a href="#">B40C1500G to B380C1500G</a>	WOG <sup>(2)</sup>	WG	65 - 600	1.0	1.5
1.5	<a href="#">DF15005S to DF1510S</a>	Dual In-Line (SMD) <sup>(2)</sup>	DFS	50 - 1000	1.1	1.5
1.5	<a href="#">DFL15005S to DFL1510S</a>	Low-Profile DIL (SMD) <sup>(2)</sup>	L-DFS	50 - 1400	1.1	1.5
1.5	<a href="#">G2SB20, G2SB60, and G2SB80</a>	Single In-Line <sup>(2)(4)</sup>	GBL	200 - 800	1.0	0.75
1.5	<a href="#">G2SBA20, G2SBA60, and G2SBA80</a>	Single In-Line <sup>(2)(4)</sup>	GBL	200 - 800	1.0	0.75
1.5	<a href="#">KBP005M to KBP10M</a>	Single In-Line <sup>(2)</sup>	KBPM	50 - 1000	1.0 / 1.3	1.0 / 1.57
1.5	<a href="#">W005G to W10G</a>	WOG <sup>(2)</sup>	WG	50 - 1000	1.0	1.0
2.0	<a href="#">2KBP005M to 2KBP10M</a>	Single In-Line <sup>(2)</sup>	KBPM	50 - 1000	1.1	3.14
2.0	<a href="#">2W005G to 2W10G</a>	WOG <sup>(2)</sup>	WG	50 - 1000	1.1	2.0
2.0	<a href="#">3N253 to 3N259</a>	Single In-Line <sup>(2)</sup>	KBPM	50 - 1000	1.1	3.14
3.0	<a href="#">GBPC1005 to GBPC110</a>	GBPC with Wire Leads <sup>(2)</sup>	GBPC1	50 - 1000	1.0	1.5
<b>3.0</b>	<b><a href="#">3KBP005M to 3KBP08M</a></b>	<b>Single In-Line<sup>(2)</sup></b>	<b>KBPM</b>	<b>50 - 800</b>	<b>1.05</b>	<b>3.0</b>
4.0	<a href="#">G3SBA20S, G3SBA60, and G3SBA80</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GBU	200 - 800	1.0	2.0
4.0	<a href="#">GBL005 to GBL10</a>	Single In-Line <sup>(2)</sup>	GBL	50 - 1000	1.0	4.0
4.0	<a href="#">GBLA005 to GBLA10</a>	Single In-Line <sup>(2)</sup>	GBL	50 - 1000	1.0	4.0
4.0	<a href="#">GBU4A to GBU4M</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GBU	50 - 1000	1.0	4.0
4.0	<a href="#">KBL005 to KBL10</a>	Single In-Line	KBL	50 - 1000	1.1	4.0
4.0	<a href="#">KBU4A to KBU4M</a>	Single In-Line with Mounting Hole	KBU	50 - 1000	1.0	4.0
6.0	<a href="#">GBPC6005 to GBPC610</a>	GBPC with Wire Leads <sup>(2)</sup>	GBPC6	50 - 1000	1.0	3.0
6.0	<a href="#">GBU6A to GBU6M</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GBU	50 - 1000	1.0	6.0
6.0	<a href="#">G5SBA20, G5SBA60, and G5SBA80</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GBU	200 - 800	1.05	3.0

Note:

1. Bold text indicates new product
2. Glass passivated die
3. t<sub>rr</sub> = 50ns max. for EDF1 types

4. Japanese electrical specifications
5. V<sub>F</sub> limits are per diode

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# RECTIFIERS

## Bridge Rectifiers



Bridge Rectifiers, continued

I <sub>F(AV)</sub> (A)	Device <sup>(1)</sup>	Package		V <sub>(BR)</sub> Range (V)	Max V <sub>F</sub> at I <sub>F</sub> <sup>(5)</sup>	
		Family	Type		(V)	(A)
6.0	<a href="#">GSIB620 to GSIB680</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GSIB-5S	200 - 800	0.95	3.0
6.0	<a href="#">GSIB620N, GSIB640N, GSIB660N, GSIB680N</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GSIB-5S	200 - 800	0.95	3.0
6.0	<a href="#">GSIB6A20 to GSIB6A80</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GSIB-5S	200 - 800	1.0	3.0
6.0	<a href="#">GSIB6A20N, GSIB6A40N, GSIB6A60N, GSIB6A80N</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GSIB-5S	200 - 800	1.0	3.0
6.0	<a href="#">KBU6A to KBU6M</a>	Single In-Line with Mounting Hole	KBU	50 - 1000	1.0	6.0
6.0	<a href="#">VSIB620 to VSIB680</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GSIB-5S	200 - 800	0.95	3.0
6.0	<a href="#">VSIB6A20 to VSIB6A80</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GSIB-5S	200 - 800	1.0	3.0
8.0	<a href="#">GBU8A to GBU8M</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GBU	50 - 1000	1.0	8.0
8.0	<a href="#">KBU8A to KBU8M</a>	Single In-Line with Mounting Hole	KBU	50 - 1000	1.0	8.0
<b>10</b>	<b><a href="#">BU1006 to BU1010</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>BU</b>	<b>600 - 1000</b>	<b>1.05</b>	<b>5.0</b>
<b>10</b>	<b><a href="#">BU1006A to BU1010A</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>BU</b>	<b>600 - 1000</b>	<b>1.1</b>	<b>5.0</b>
10	<a href="#">VSIB10A20 to VSIB10A80</a>	Single In-Line with Mounting Hole <sup>(2)</sup>	GSIB-5S	200 - 800	1.0	5.0
<b>12</b>	<b><a href="#">BU1206 to BU1210</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>BU</b>	<b>600 - 1000</b>	<b>1.05</b>	<b>6.0</b>
12	<a href="#">GBPC12005 to GBPC1210</a>	GBPC with Fast-On Lugs <sup>(2)</sup>	GBPC12-35	50 - 1000	1.1	6.0
12	<a href="#">GBPC12005W to GBPC1210W</a>	GBPC with Wire Leads <sup>(2)</sup>	GBPC12-35W	50 - 1000	1.1	6.0
<b>15</b>	<b><a href="#">BU1506 to BU1510</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>BU</b>	<b>600 - 1000</b>	<b>1.05</b>	<b>7.5</b>
15	<a href="#">GBPC15005 to GBPC1510</a>	GBPC with Fast-On Lugs <sup>(2)</sup>	GBPC12-35	50 - 1000	1.1	7.5
15	<a href="#">GBPC15005W to GBPC1510W</a>	GBPC with Wire Leads <sup>(2)</sup>	GBPC12-35W	50 - 1000	1.1	7.5
15	<a href="#">GSIB1520 to GSIB1580</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	0.95	7.5
15	<a href="#">GSIB1520N, GSIB1540N, GSIB1560N, GSIB1580N</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	0.95	7.5
15	<a href="#">GSIB15A20 to GSIB15A80</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.05	7.5
15	<a href="#">GSIB15A20N, GSIB15A40N, GSIB15A60N, GSIB15A80N</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.05	7.5
15	<a href="#">VSIB1520 to VSIB1580</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	0.95	7.5
15	<a href="#">VSIB15A20 to VSIB15A80</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.0	7.5
<b>20</b>	<b><a href="#">BU2006 to BU2010</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>BU</b>	<b>600 - 1000</b>	<b>1.05</b>	<b>10.0</b>
20	<a href="#">GSIB2020 to GSIB2080</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.1	10.0
20	<a href="#">GSIB2020N, GSIB2040N, GSIB2060N, GSIB2080N</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.1	10
20	<a href="#">VSIB2020 to VSIB2080</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.0	10.0
<b>25</b>	<b><a href="#">BU2506 to BU2510</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>BU</b>	<b>600 - 1000</b>	<b>1.05</b>	<b>12.5</b>
25	<a href="#">GBPC25005 to GBPC2510</a>	GBPC with Fast-On Lugs <sup>(2)</sup>	GBPC12-35	50 - 1000	1.1	12.5
25	<a href="#">GBPC25005W to GBPC2510W</a>	GBPC with Wire Leads <sup>(2)</sup>	GBPC12-35W	50 - 1000	1.1	12.5
25	<a href="#">GSIB2520 to GSIB2580</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.05	12.5

Note:

1. Bold text indicates new product
2. Glass passivated die
3. t<sub>r</sub> = 50ns max. for EDF1 types

4. Japanese electrical specifications
5. V<sub>F</sub> limits are per diode



# RECTIFIERS

## Bridge Rectifiers



Bridge Rectifiers, continued

$I_{F(AV)}$ (A)	Device <sup>(1)</sup>	Package		$V_{(BR)}$ Range (V)	Max $V_F$ at $I_F$ <sup>(5)</sup>	
		Family	Type		(V)	(A)
25	<a href="#">GSIB2520N, GSIB2540N, GSIB2560N, GSIB2580N</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.05	12.5
25	<a href="#">VSIB2520 to VSIB2580</a>	Single In-Line with Mounting Hole <sup>(2)(4)</sup>	GSIB-5S	200 - 800	1.0	12.5
<b>30</b>	<b><a href="#">PB3006 to PB3010</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>PB</b>	<b>600 - 1000</b>	<b>1.10</b>	<b>15.0</b>
35	<a href="#">GBPC35005 to GBPC3510</a>	GBPC with Fast-On Lugs <sup>(2)</sup>	GBPC12-35	50 - 1000	1.1	17.5
35	<a href="#">GBPC35005W to GBPC3510W</a>	GBPC with Wire Leads <sup>(2)</sup>	GBPC12-35W	50 - 1000	1.1	17.5
<b>35</b>	<b><a href="#">PB3506 to PB3510</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>PB</b>	<b>600 - 1000</b>	<b>1.10</b>	<b>17.5</b>
<b>40</b>	<b><a href="#">PB4006 to PB4010</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>PB</b>	<b>600 - 1000</b>	<b>1.10</b>	<b>20.0</b>
<b>45</b>	<b><a href="#">PB5006 to PB5010</a></b>	<b>Single In-Line with Mounting Hole<sup>(2)</sup></b>	<b>PB</b>	<b>600 - 1000</b>	<b>1.10</b>	<b>22.5</b>

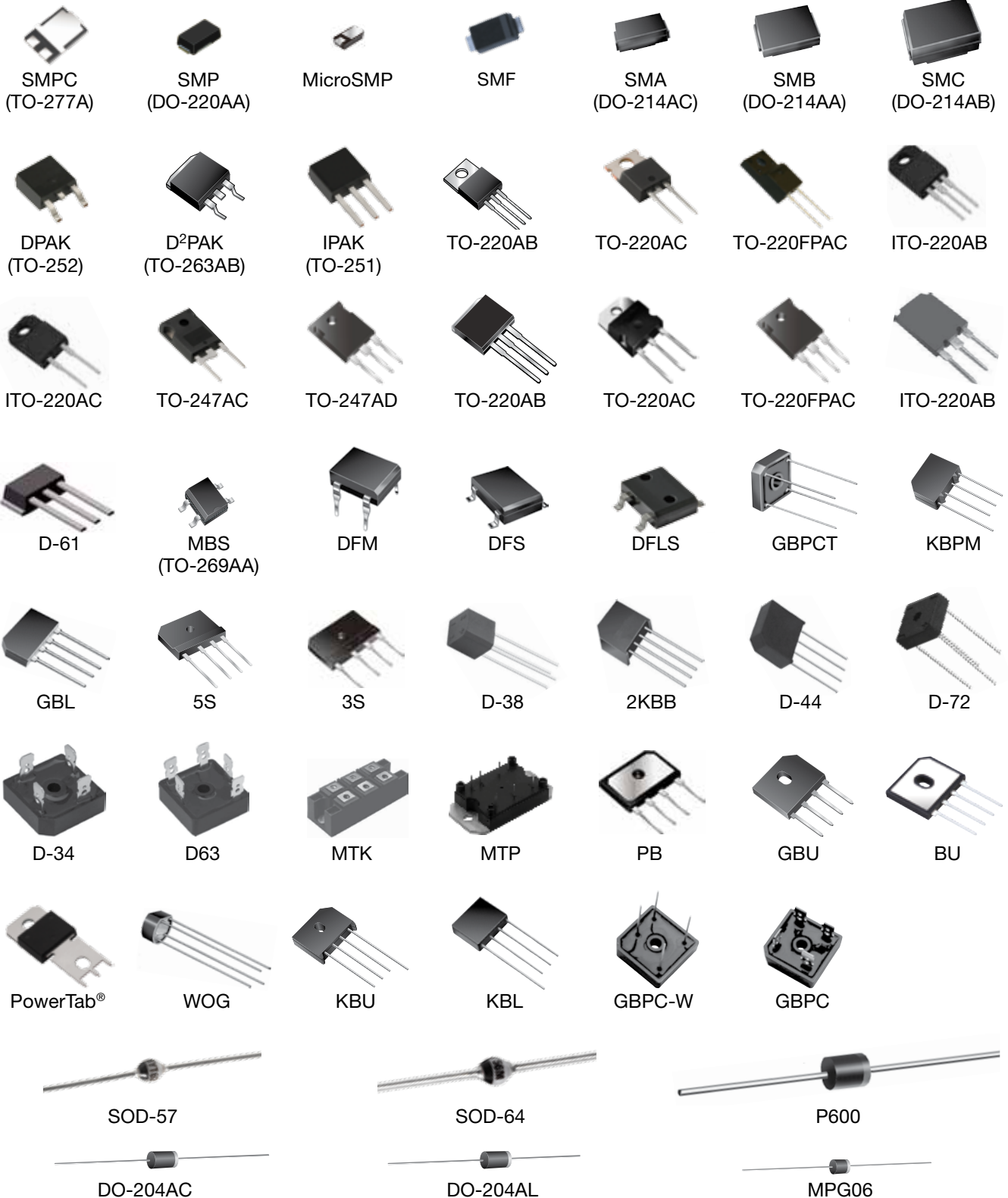
Note:

1. Bold text indicates new product
2. Glass passivated die
3.  $t_{rr}$  = 50ns max. for EDF1 types

4. Japanese electrical specifications
5.  $V_F$  limits are per diode

Rectifiers - Worldwide Leader in Power Rectifiers

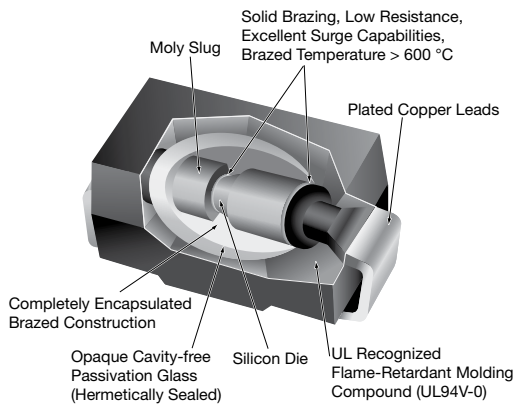
### Rectifier Packages



## Sample Package Construction

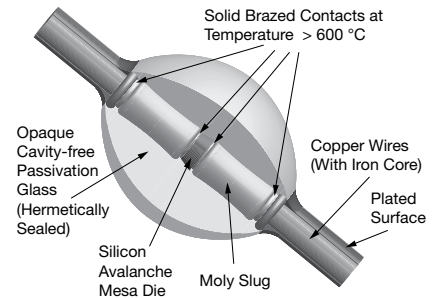
### SUPERECTIFIER®

The SUPERECTIFIER is exactly that: a super rectifier. This highly-reliable and cost-effective rectifier is the result of a combination of patented technologies. No other 0.25 A to 3.0 A rectifiers of any kind — plastic, glass, or metal — can match the SUPERECTIFIER combination of features that result from Vishay's unique glass-plastic construction. SUPERECTIFIER products are offered in standard, fast, and ultrafast types for both axial and surface mounting.



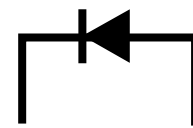
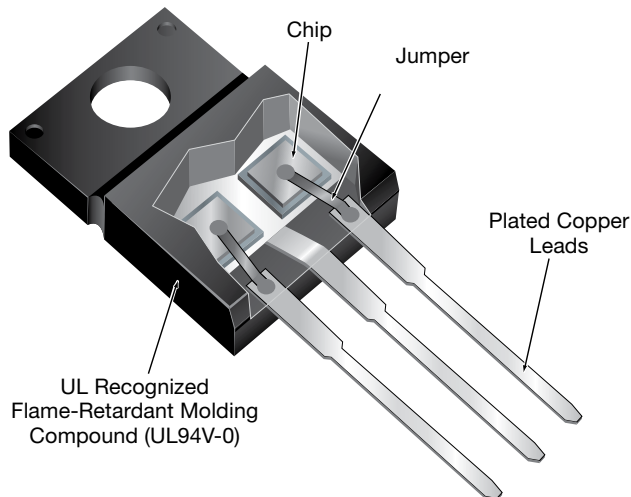
### SINTERGLASS RECTIFIER

The glass passivated rectifier is a hermetically sealed, diffused junction rectifier with unsurpassed operating and surge capabilities at high temperatures. An extremely pure, specially developed glass applied in direct contact with the silicon junction, creates an ideal cavity-free passivating medium. Glass rectifiers are offered in standard, fast, and ultrafast types.

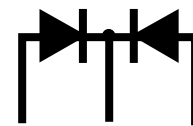


### ITO-220AB

Vishay offers the TO-220 power package with either the heat sink exposed or with an isolated body, as shown below.



Single





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