

SUBMINIATURE SOLID STATE LAMP

Part Number: AM2520MGC03 Mega Green

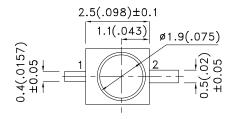
Features

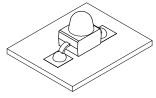
- Subminiature package.
- Gull wing lead.
- Long life solid state reliability.
- Low package profile.
- Moisture sensitivity level : level 3.
- Package: 1000pcs / reel.
- RoHS compliant.

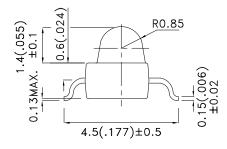
Description

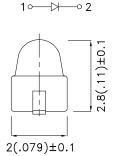
The Mega Green source color devices are made with Al-GaInP on GaAs substrate Light Emitting Diode.

Package Dimensions









- All dimensions are in millimeters (inches).
 Tolerance is ±0.25(0.01") unless otherwise noted.
- 3. Lead spacing is measured where the leads emerge from the package.
- 4. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.
- 5. The device has a single mounting surface. The device must be mounted according to the specifications.

SPEC NO: DSAC2794 **REV NO: V.7 DATE: NOV/16/2010** PAGE: 1 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: C.H.Han ERP: 1202000540

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
		21	Min.	Тур.	201/2
AM2520MGC03	Mega Green (AlGaInP)	Water Clear	500	800	20°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
 2. Luminous intensity/ luminous Flux: +/-15%.

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Mega Green	574		nm	IF=20mA
λD [1]	Dominant Wavelength	Mega Green	570		nm	I==20mA
Δλ1/2	Spectral Line Half-width	Mega Green	26		nm	IF=20mA
С	Capacitance	Mega Green	20		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Mega Green	2.1	2.5	V	IF=20mA
lr	Reverse Current	Mega Green		10	uA	V _R =5V

Notes:

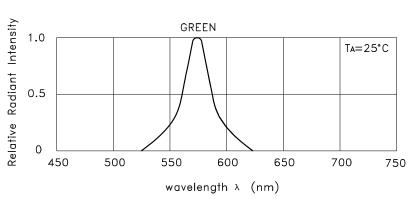
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

Absolute Maximum Ratings at TA=25°C

Absolute maximum ratings at TA 20 0					
Parameter	Mega Green				
Power dissipation	75	mW			
DC Forward Current	30	mA			
Peak Forward Current [1]	150	mA			
Reverse Voltage	5	V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.

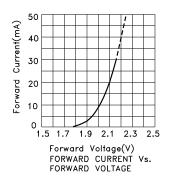
SPEC NO: DSAC2794 **REV NO: V.7 DATE: NOV/16/2010** PAGE: 2 OF 5 APPROVED: WYNEC **CHECKED: Allen Liu** DRAWN: C.H.Han ERP: 1202000540

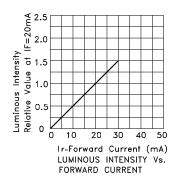


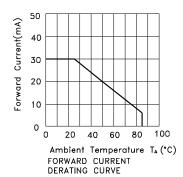
RELATIVE INTENSITY Vs. WAVELENGTH

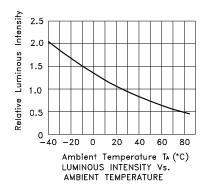
Mega Green

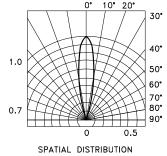
AM2520MGC03











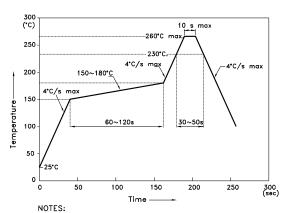
 SPEC NO: DSAC2794
 REV NO: V.7
 DATE: NOV/16/2010
 PAGE: 3 OF 5

 APPROVED: WYNEC
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AM2520MGC03

Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



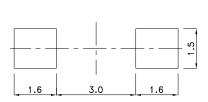
- NOTES:

 1.We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.

 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

 3.Number of reflow process shall be 2 times or less.

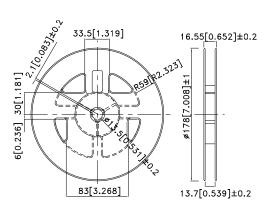
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

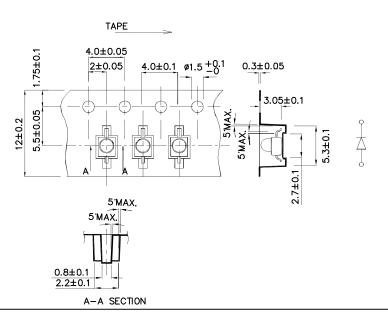


Tape Dimensions

(Units: mm)

Reel Dimension

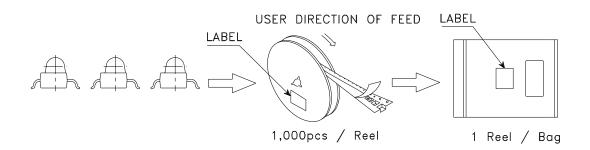


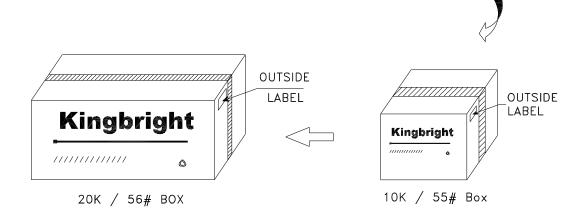


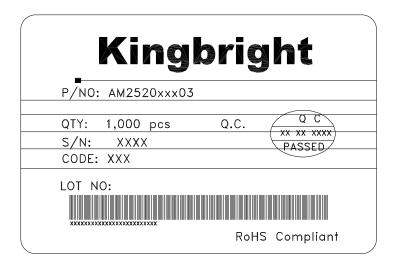
SPEC NO: DSAC2794 **REV NO: V.7 DATE: NOV/16/2010** PAGE: 4 OF 5 **APPROVED: WYNEC CHECKED: Allen Liu** DRAWN: C.H.Han ERP: 1202000540

PACKING & LABEL SPECIFICATIONS

AM2520MGC03







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PAGE: 5 OF 5 ERP: 1202000540