4.5x2mm SMD CHIP LED LAMP

Part Number: APD2520MGC03 Mega Green

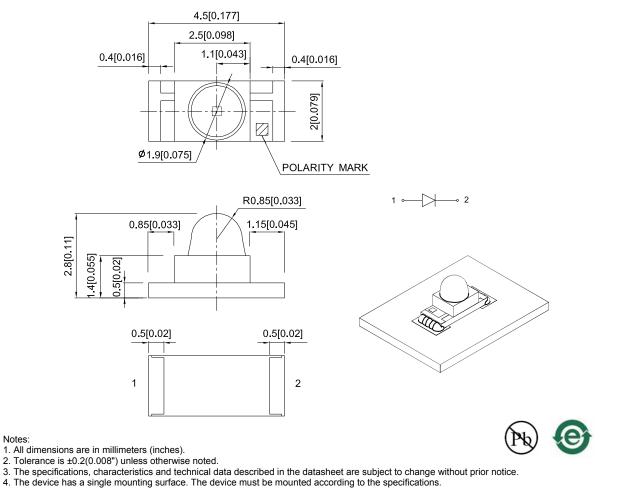
Features

- 4.5x2mm SMT LED,2.8mm thickness.
- Low power consumption.
- Ideal for backlight and indicator.
- Package : 1000pcs/reel.
- Moisture sensitivity level : level 3.
- RoHS compliant.

Description

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

Package Dimensions



REV NO: V.7B CHECKED: Allen Liu DATE: APR/03/2015 DRAWN: Q.M.Chen PAGE: 1 OF 5 ERP: 1203001025

Salaction Guida

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APD2520MGC03	Mega Green (AlGaInP)	Water Clear	300	500	10°

Notes:

01 / 2 is the angle from optical centerline where the luminous intensity is 1 / 2 of the optical peak value.
Luminous intensity / luminous Flux: + / -15%.
Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

Electrical / Optical Characteristics at TA=25°C

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

Notes: 1. Wavelength: + / -1nm. 2. Forward Voltage: + / -0.1V. 3. Wavelength value is traceable to the CIE127-2007 compliant national standards.

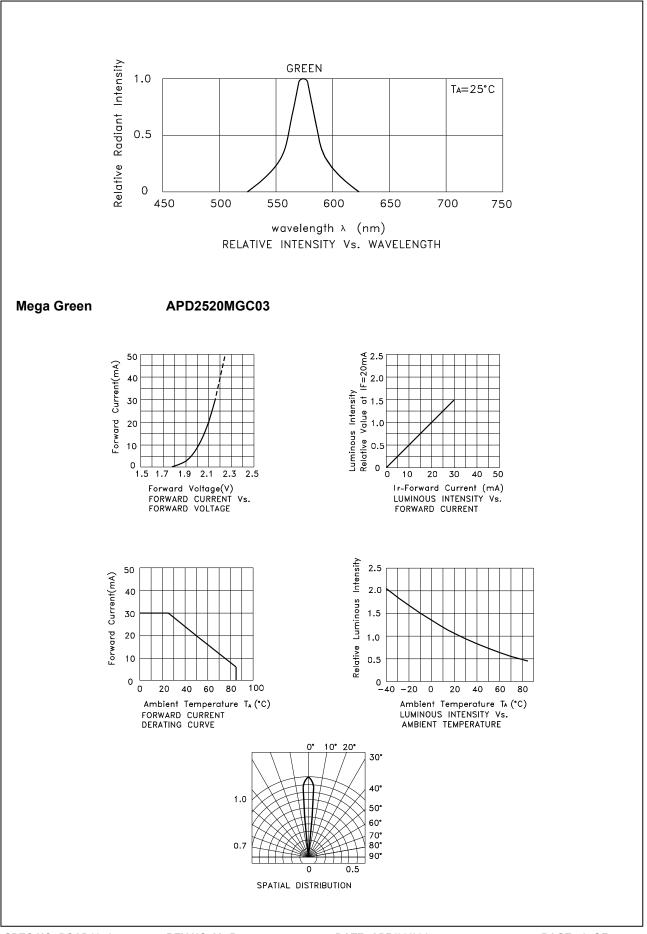
Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

Absolute Maximum Ratings at TA=25°C

Parameter	Mega Green	Units	
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.

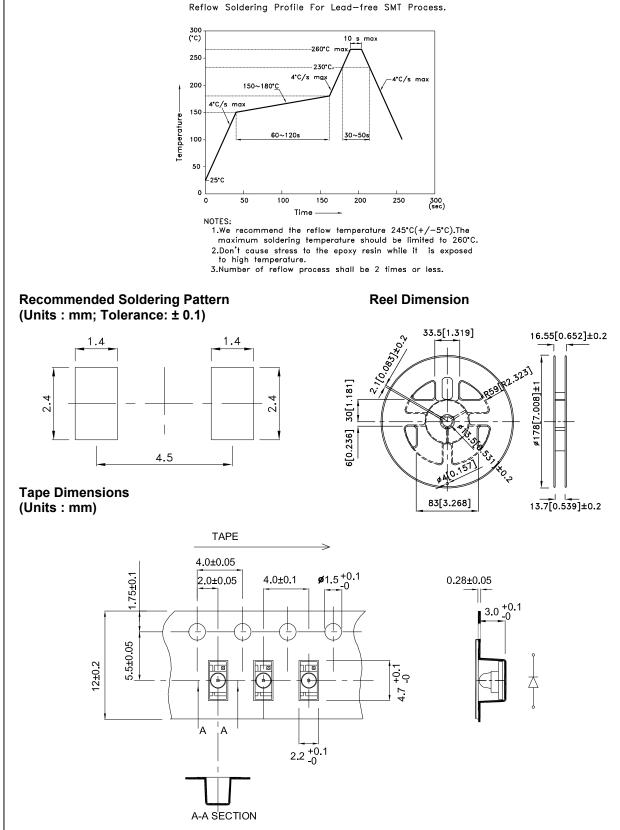


DATE: APR/03/2015 DRAWN: Q.M.Chen

APD2520MGC03

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.

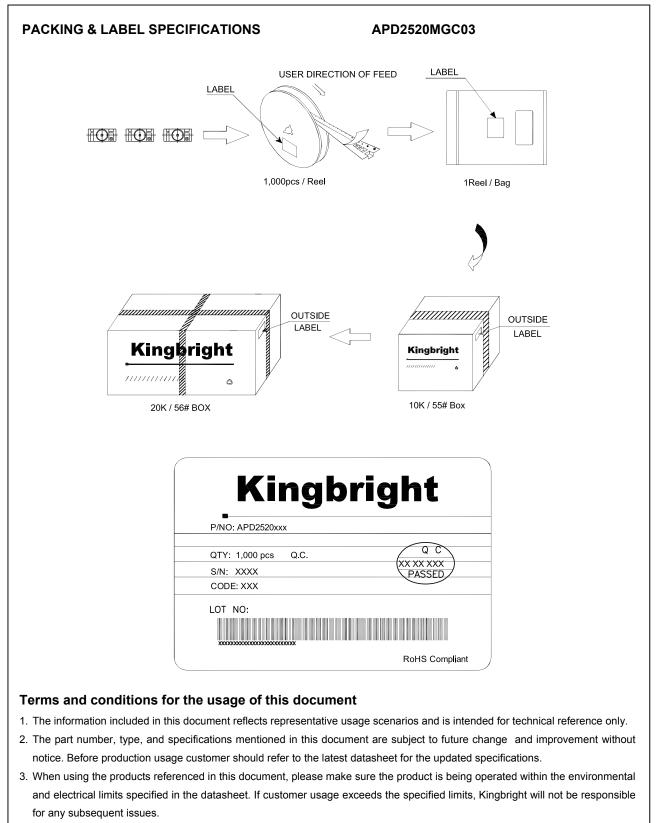


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REV NO: V.7B **CHECKED:** Allen Liu

DATE: APR/03/2015 DRAWN: Q.M.Chen

PAGE: 4 OF 5 ERP: 1203001025



- 4. The information in this document applies to typical usage in consumer electronics applications. If customer's application has special reliability requirements or have life-threatening liabilities, such as automotive or medical usage, please consult with Kingbright representative for further assistance.
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