### 2.0x1.25mm SMD CHIP LED LAMP

Part Number: AP2012MGC Mega Green

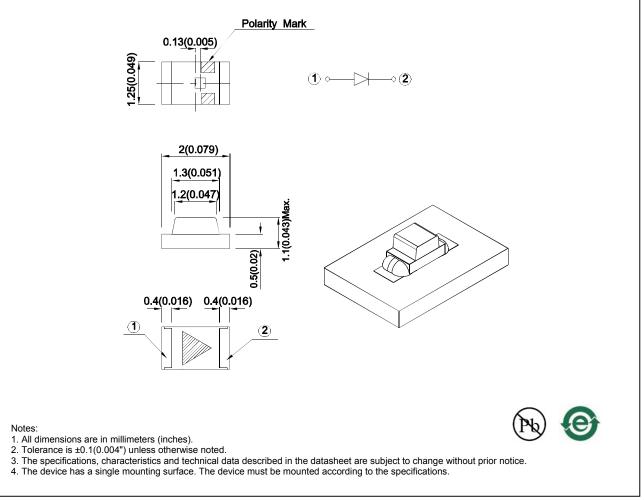
#### Features

- 2.0mmx1.25mm SMD LED,1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Package : 2000pcs / 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**



SPEC NO: DSAD0941 APPROVED: Wynec REV NO: V.13B CHECKED: Allen Liu DATE: OCT/30/2015 DRAWN: F.T.Liu PAGE: 1 OF 5 ERP: 1203000126

#### **Selection Guide** lv (mcd) [2] Viewing @ 20mA Angle [1] Part No. **Emitting Color (Material)** Lens Type 201/2 Min. Тур. AP2012MGC Mega Green (AlGaInP) Water Clear 20 60 120°

Notes:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

2. Luminous intensity/ luminous Flux: +/-15%.

3. Luminous intensity value is traceable to the CIE127-2007 compliant national standards.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Emitting Color	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.

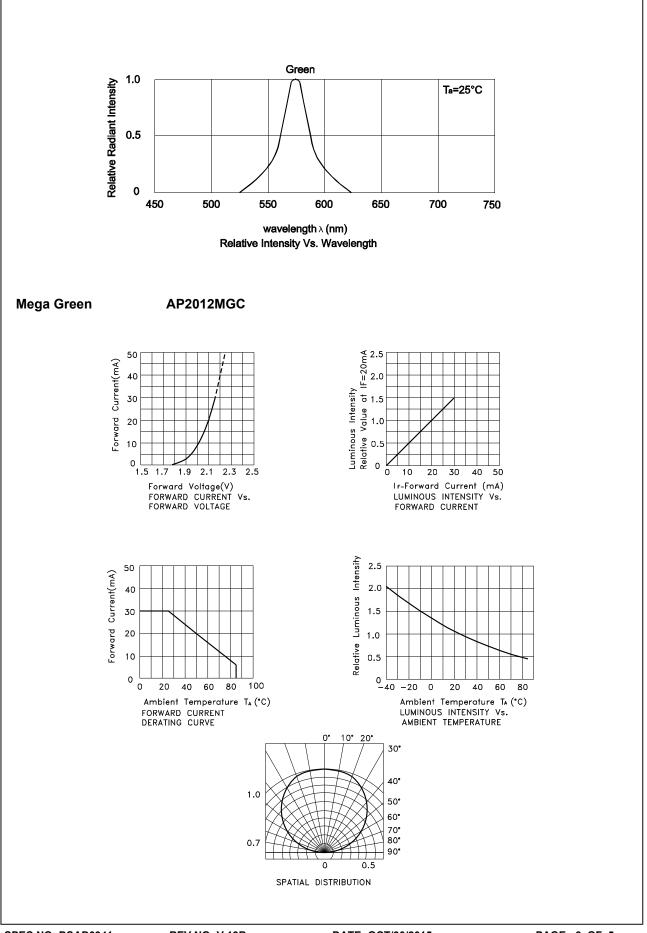
4. Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

#### Absolute Maximum Ratings at TA=25°C

Parameter	Values	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			

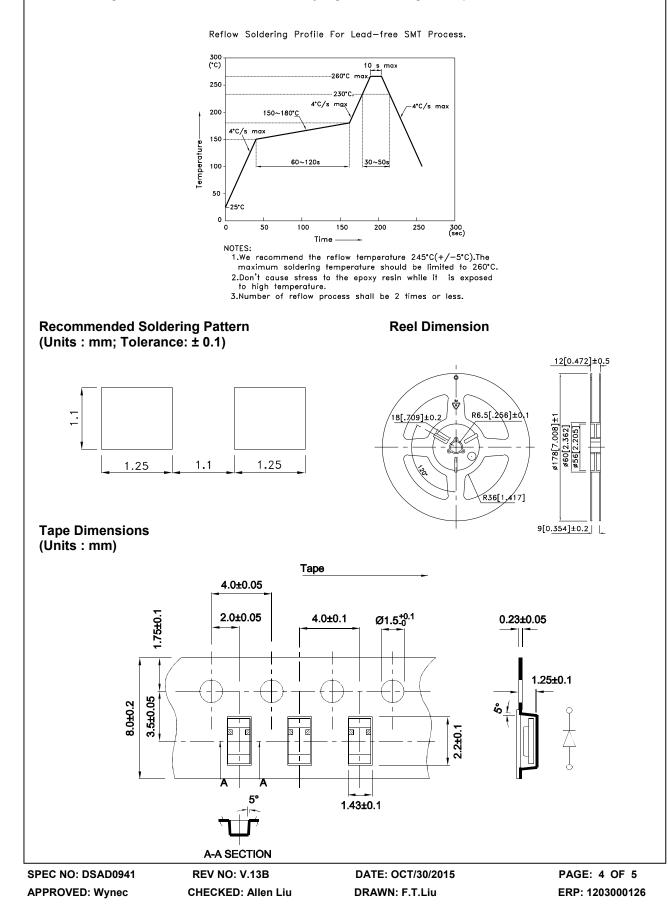
Note:

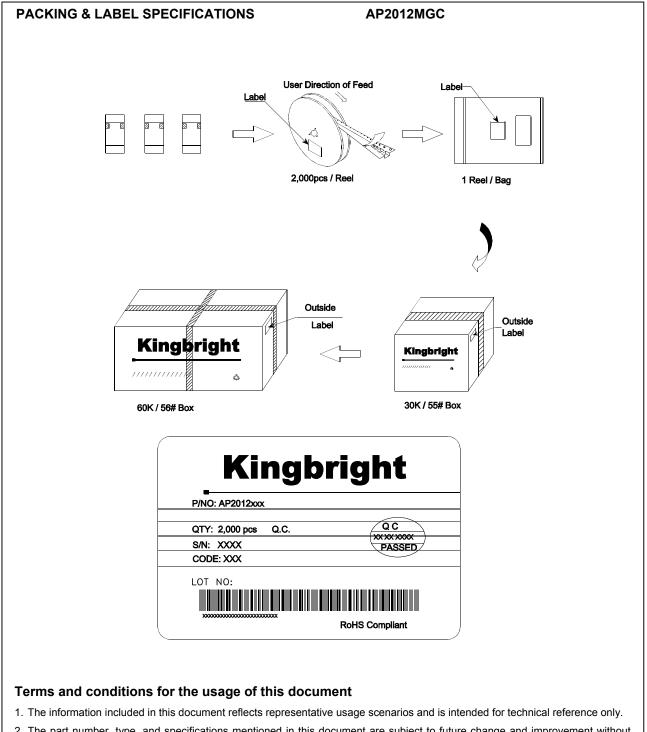
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



#### AP2012MGC

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.





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