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

Part Number: KP-2012SGC

Super Bright Green

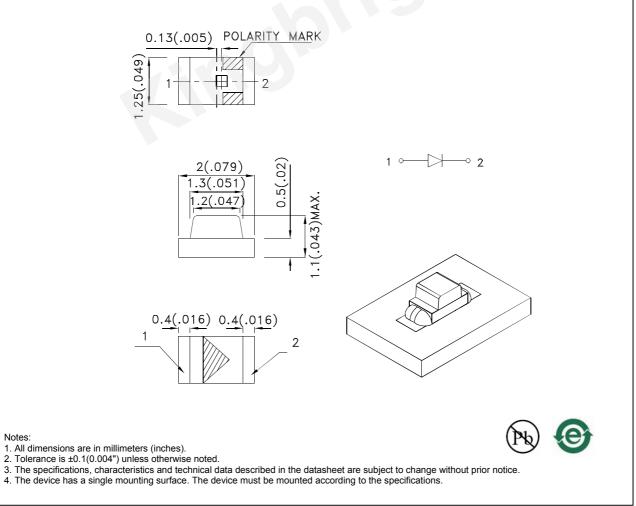
#### Features

- 2.0mmx1.25mm SMT 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 Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

#### **Package Dimensions**



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#### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KP-2012SGC	Super Bright Green (GaP)	Water Clear	5	12	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	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Green	565		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	I⊧=20mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Green		10	uA	VR=5V

Notes:

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

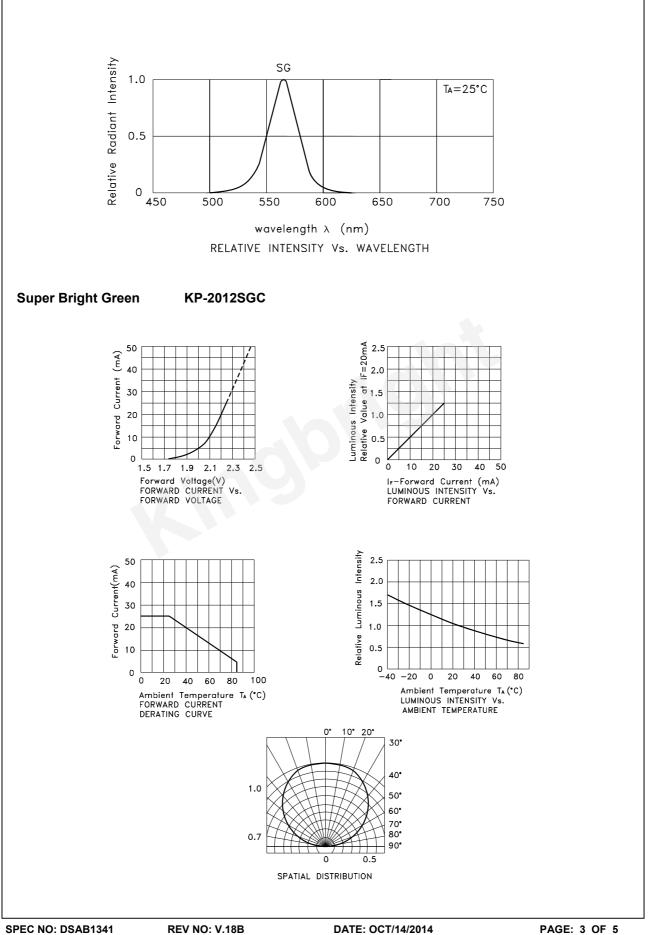
3.Wavelength value is traceable to the CIE127-2007 compliant national standards. 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

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

Parameter	Super Bright Green	Units		
Power dissipation	62.5	mW		
DC Forward Current	25	mA		
Peak Forward Current [1]	140	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

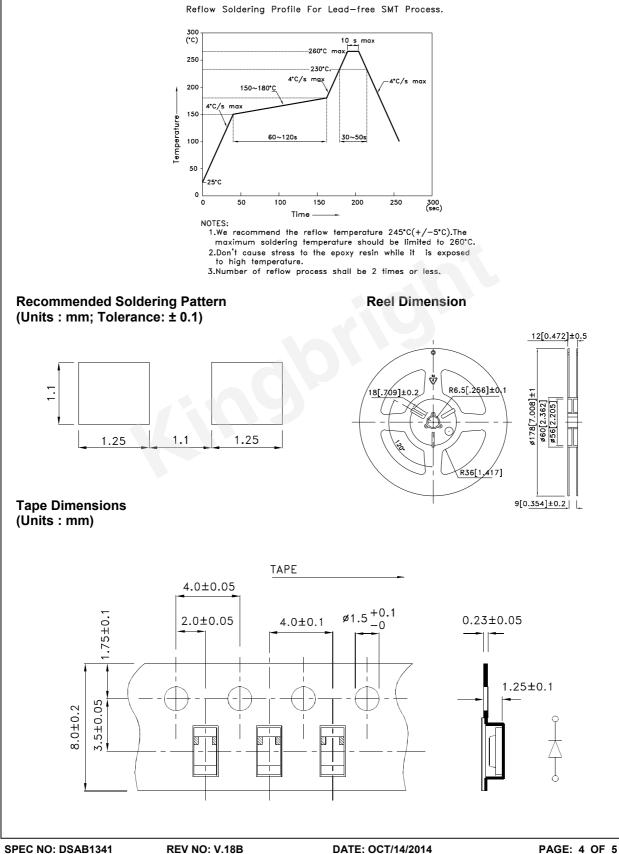
Note:

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



### KP-2012SGC

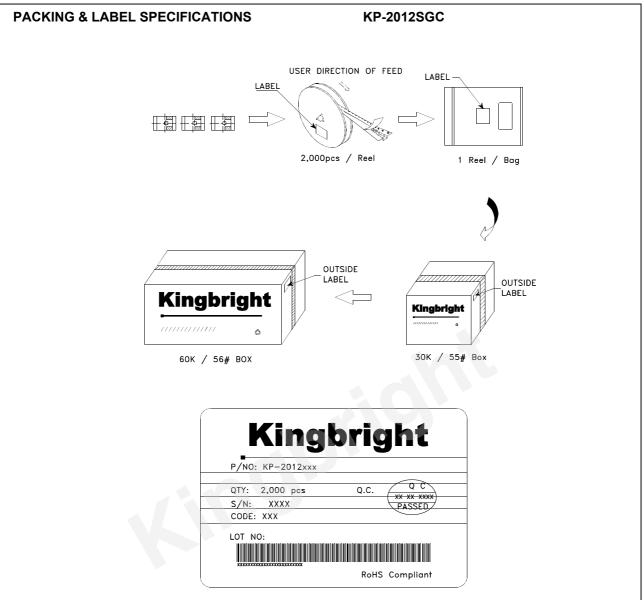
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.



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