

### 3.2x1.6mm SMD CHIP LED LAMP

Part Number: APTD3216SGC

Super Bright Green

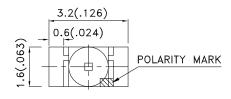
### **Features**

- •3.2mmX1.6mm SMT LED, 1.8mm thickness.
- •Low power consumption.
- •Ideal for backlight and indicator.
- •Various colors and lens types available.
- ●Package: 2000pcs / reel .
- •Moisture sensitivity level : level 3.
- ●RoHS compliant.

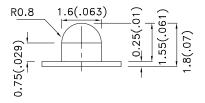
### Description

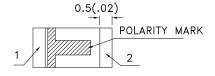
The Super Bright Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

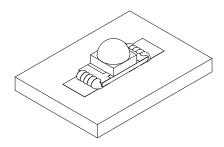
## **Package Dimensions**











- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ±0.2(0.008") unless otherwise noted.
- Specifications are subject to change without notice.
   The device has a single mounting surface. The device must be mounted according to the specifications.





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**REV NO: V.9 CHECKED: Allen Liu**  DATE: MAR/25/2009 DRAWN: X.J.Guo

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# **Selection Guide**

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APTD3216SGC	Super Bright Green (GaP)	WATER CLEAR	10	50	40°

- 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline 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	Super Bright Green	565		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Green	568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Green	30		nm	IF=20mA
С	Capacitance	Super Bright Green	15		pF	VF=0V;f=1MHz
VF [2]	Forward Voltage	Super Bright Green	2.2	2.5	V	IF=20mA
lR	Reverse Current	Super Bright Green		10	uA	V <sub>R</sub> =5V

### Notes:

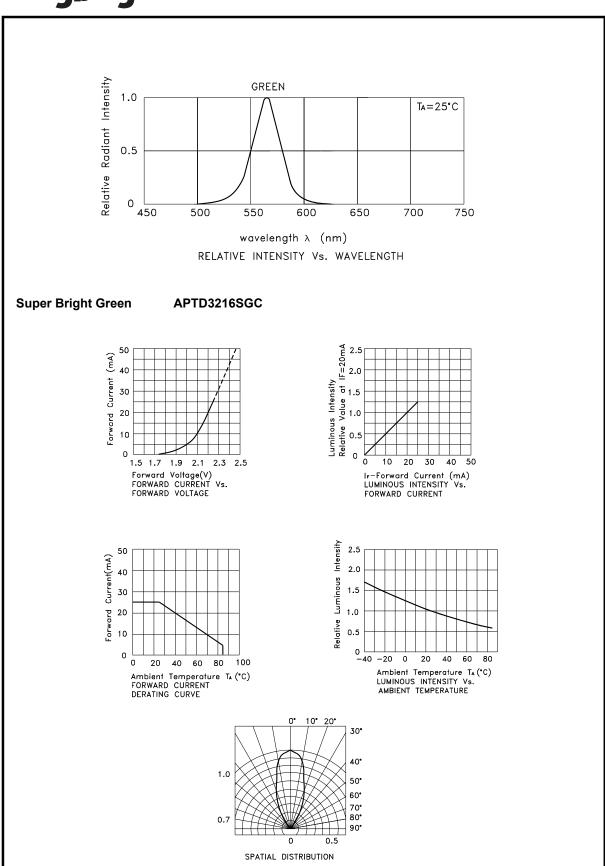
- 1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

## Absolute Maximum Ratings at TA=25°C

gg					
Parameter	Super Bright Green				
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.

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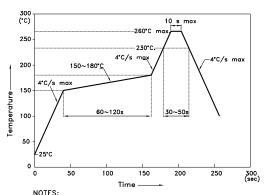
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### APTD3216SGC

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.



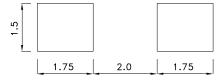
NOTES:

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

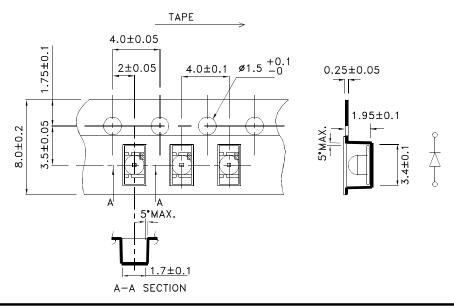
2.Don't cause stress to the epoxy resin while it is exposed to high temperature.

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

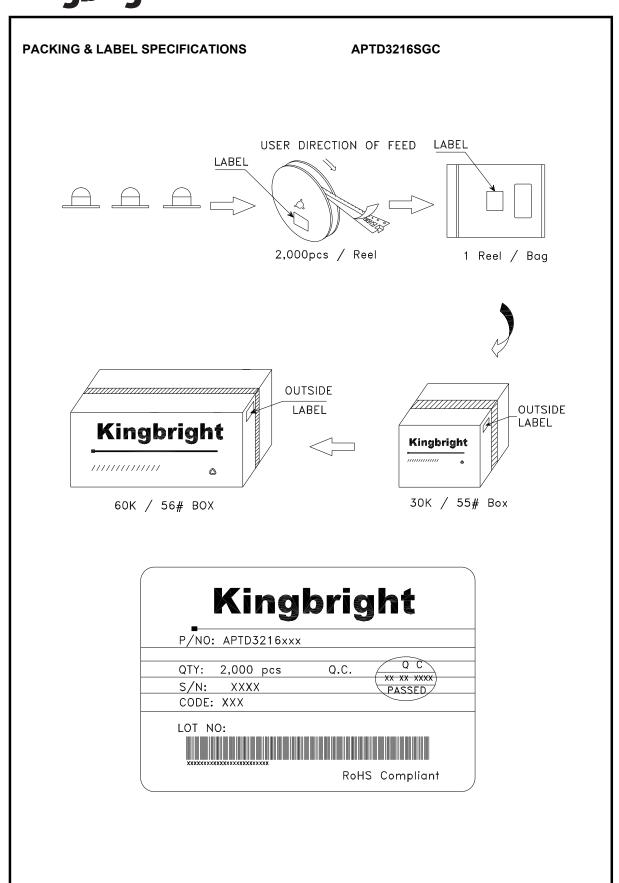
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Tape Dimensions (Units : mm)



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