## 3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: APBL3025SRQGCPR-F01

Super Bright Red Green

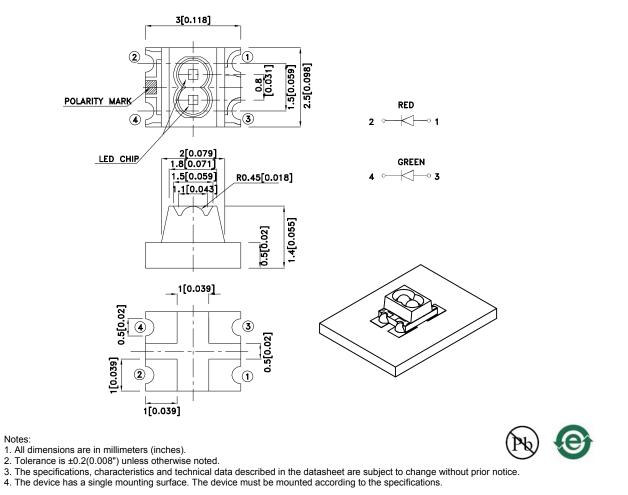
### Features

- 3.0mmx2.5mm SMT LED, 1.4mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Inner lens type.
- Moisture sensitivity level : level 3.
- Package : 2000pcs / reel.
- RoHS compliant.

### Descriptions

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

### Package Dimensions



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### Salastian Cuida

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
APBL3025SRQGCPR-F01	Super Bright Red (GaAlAs)	Water Clear	100	150	100°
			*20	*50	
	Green (GaP)		12	20	
			*12	*20	

Notes: 1.θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value. 2.Luminous intensity/ luminous Flux: +/-15%. \*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 Red Green	655 560		nm	I⊧=20mA
λD [1]	Dominant Wavelength	Super Bright Red Green	640 565		nm	I⊧=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Green	20 30		nm	I⊧=20mA
С	Capacitance	Super Bright Red Green	45 45		pF	V⊧=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Red Green	1.85 2.15	2.5 2.5	V	I⊧=20mA
lr	Reverse Current	Super Bright Red Green		10 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.

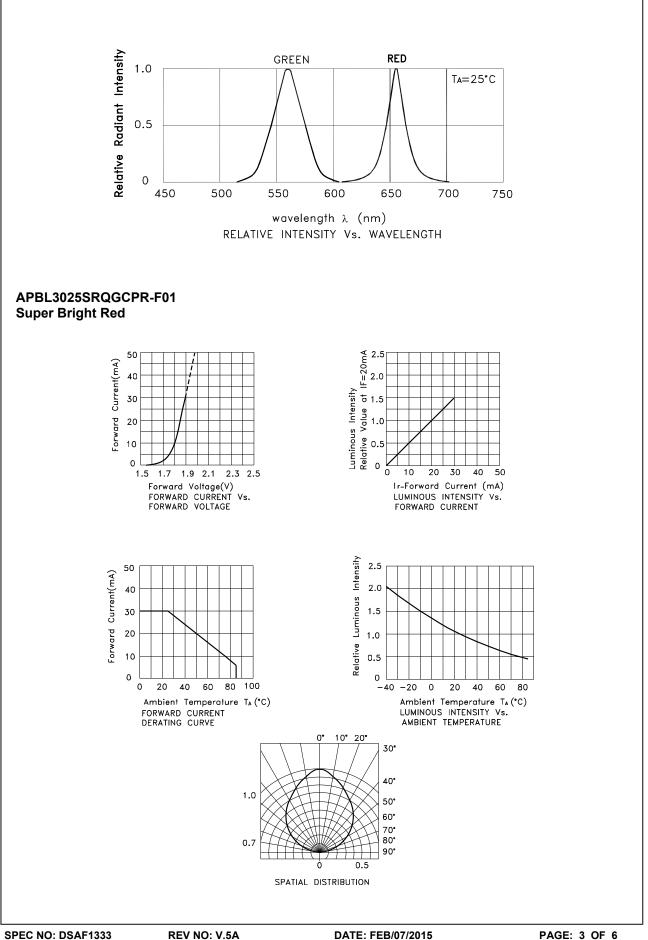
4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.

## Absolute Maximum Ratings at TA=25°C

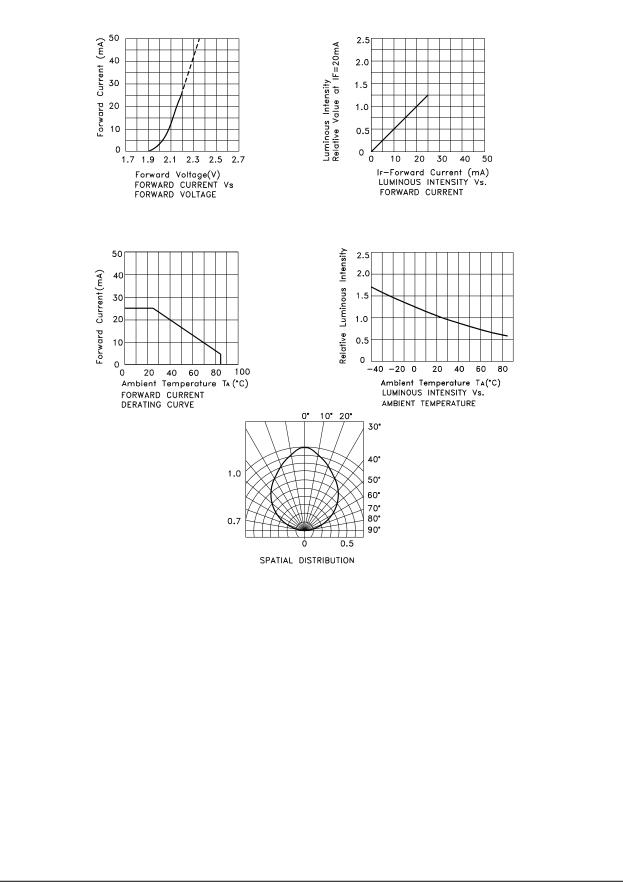
Parameter	Super Bright Red	Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	155	130	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



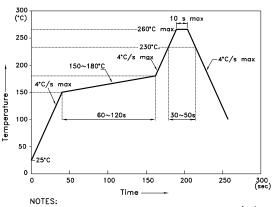
### Green



## APBL3025SRQGCPR-F01

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.

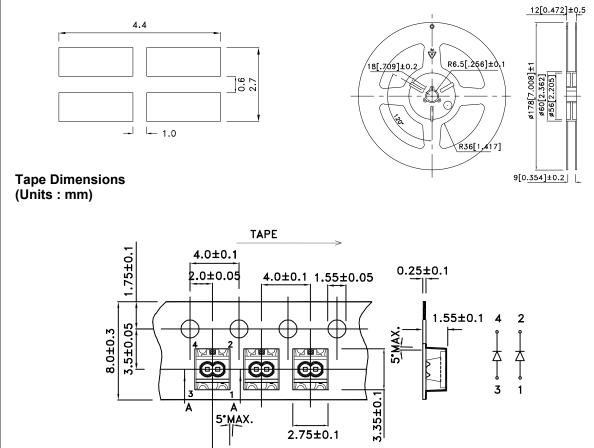
Reflow Soldering Profile For Lead-free SMT Process.



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.



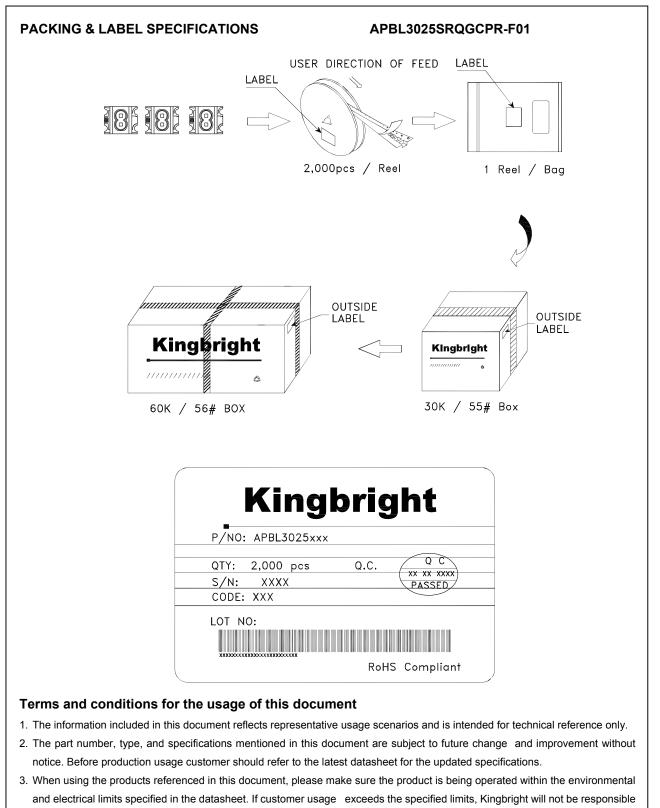
## **Reel Dimension**



**REV NO: V.5A CHECKED: Allen Liu** 

A-A SECTION

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- 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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for any subsequent issues.

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