www.to-grace.com 公司授权代理销售LITE-ON: 光耦, 贴片LED灯等 进口原装,现货供应,价格优势,技术支持

电话: 0755-83464948 传真: 0755-83464076 3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: APBL3025SRQGCPR-F01

Super Bright Red Green

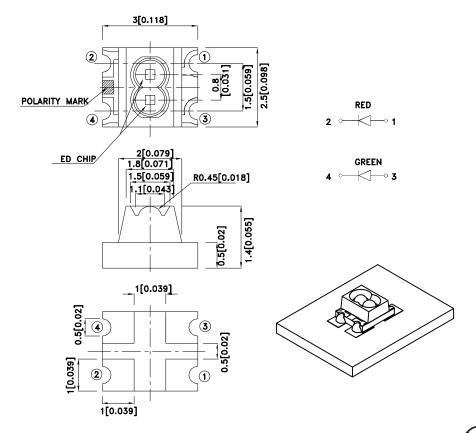
Features

- 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



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

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Selection Guide

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:

- 1.01/2 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

2 Section 7 Spinor State Scientific at 17 20 5							
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Super Bright Red Green	655 560		nm	IF=20mA	
λD [1]	Dominant Wavelength	Super Bright Red Green	640 565		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	Super Bright Red Green	20 30		nm	IF=20mA	
О	Capacitance	Super Bright Red Green	45 45		pF	VF=0V;f=1MHz	
VF [2]	Forward Voltage	Super Bright Red Green	1.85 2.15	2.5 2.5	V	IF=20mA	
lr	Reverse Current	Super Bright Red Green		10 10	uA	V _R = 5V	

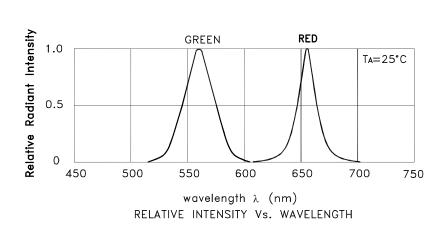
- Notes:
 1.Wavelength: +/-1nm.
 2.Forward Voltage: +/-0.1V.
 3.Wavelength value is traceable to the CIE127-2007 compliant national standards.
- 4.Excess driving current and/or operating temperature higher than recommended conditions may result in severe light degradation or

Absolute Maximum Ratings at TA=25°C

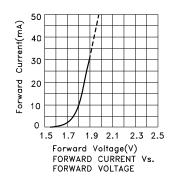
Parameter	Super Bright Red	Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	155	130	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

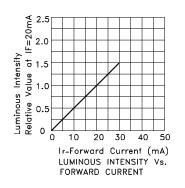
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

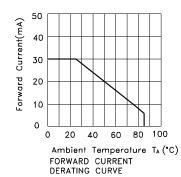
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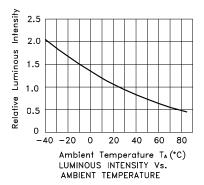


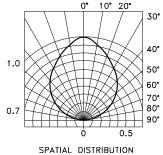
APBL3025SRQGCPR-F01 Super Bright Red





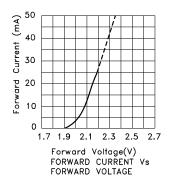


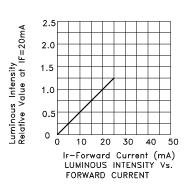


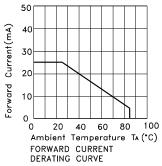


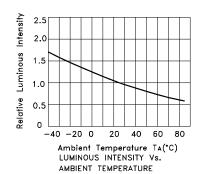
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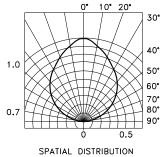
Green









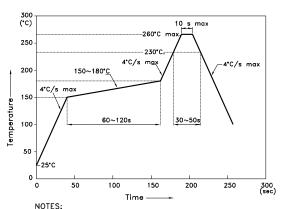


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Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.



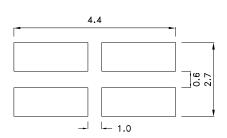
- NOTES:

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

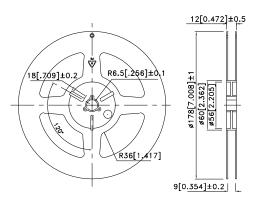
 2.Don't cause stress to the epoxy resin while it is exposed to high temperature.
 - to high temperature.

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

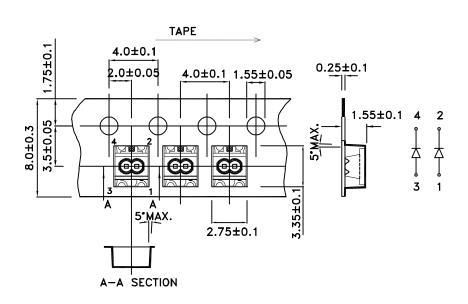
Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



Reel Dimension



Tape Dimensions (Units: mm)

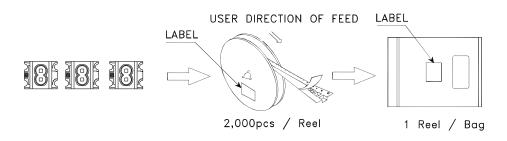


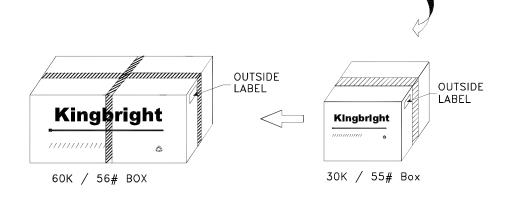
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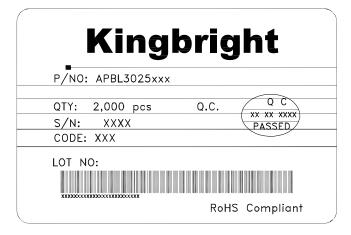
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PACKING & LABEL SPECIFICATIONS

APBL3025SRQGCPR-F01







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