### 3.0x2.5mm SURFACE MOUNT LED LAMP

Part Number: KPBL-3025SRSGC-PRV

Super Bright Red Super Bright Green

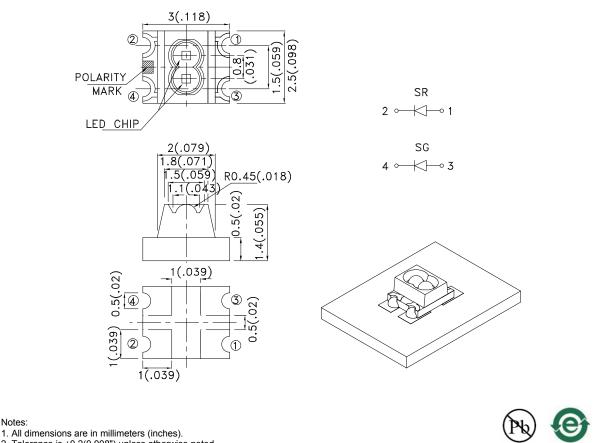
#### **Features**

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

#### Description

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

### **Package Dimensions**



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.

SPEC NO: DSAA6764 **APPROVED: WYNEC** 

Notes:

REV NO: V.15A **CHECKED: Allen Liu**  DATE: APR/19/2013 DRAWN: F.Cui

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#### Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min. Typ.	Тур.	201/2
KPBL-3025SRSGC-PRV	Super Bright Red (GaAlAs)	Water Clear	100	150	- 100°
			*20	*50	
	Super Bright Green (GaP)		12	20	
			*12	*20	

Notes:

θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.
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 Super Bright Green	655 565		nm	IF=20mA
λD [1]	Dominant Wavelength	Super Bright Red Super Bright Green	640 568		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Super Bright Red Super Bright Green	20 30		nm	IF=20mA
С	Capacitance	Super Bright Red Super Bright Green	45 15		pF	VF=0V;f=1MHz
Vf [2]	Forward Voltage	Super Bright Red Super Bright Green	1.85 2.2	2.5 2.5	V	IF=20mA
lr	Reverse Current	Super Bright Red Super Bright Green		10 10	uA	VR = 5V

Notes:

1. Wavelength: +/-1nm.

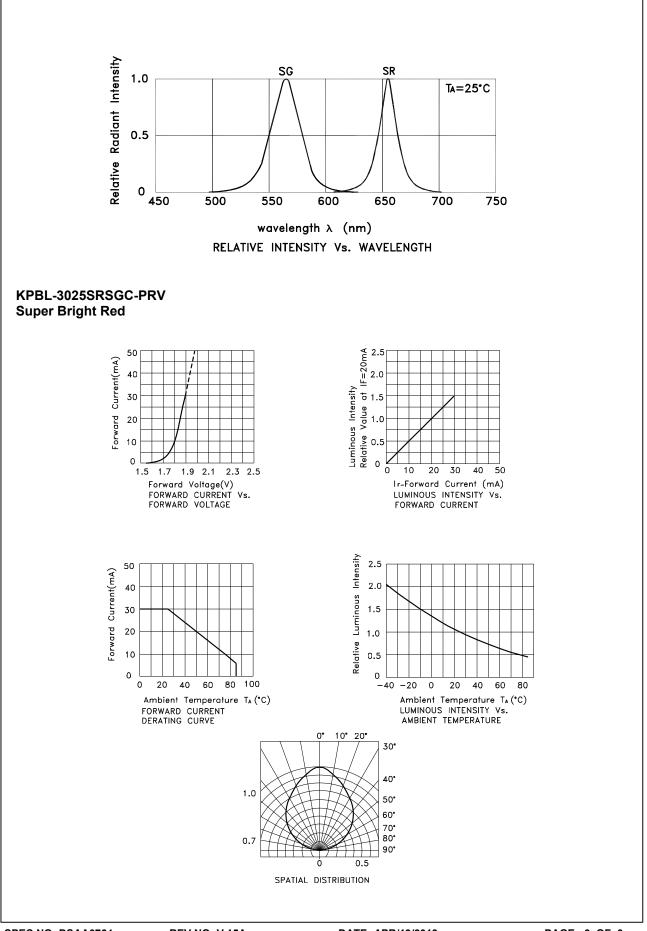
Forward Voltage: +/-0.1V.
Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

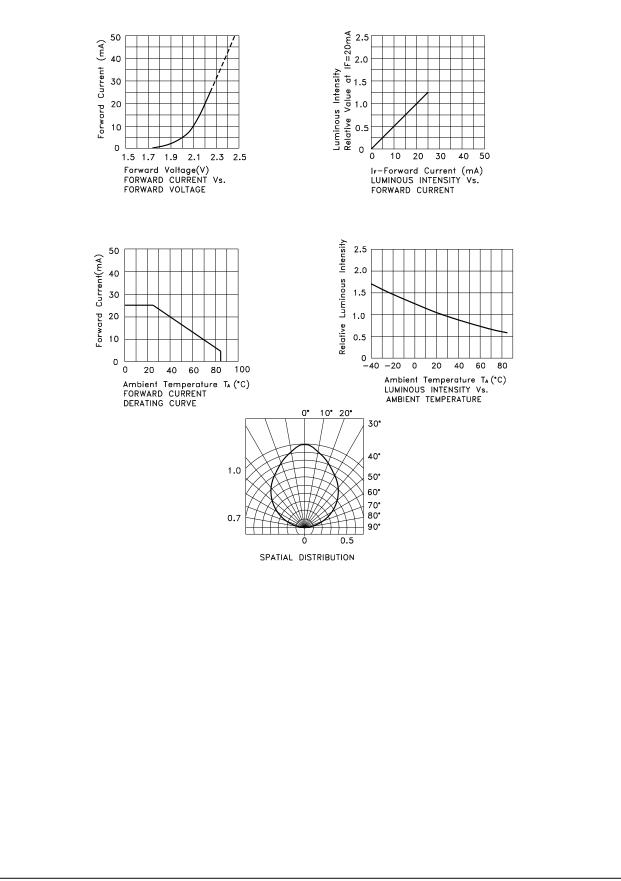
Parameter	Super Bright Red	Super Bright Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	155	140	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



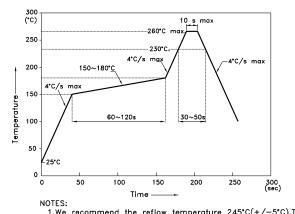
### Super Bright Green



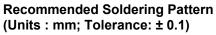
### **KPBL-3025SRSGC-PRV**

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.

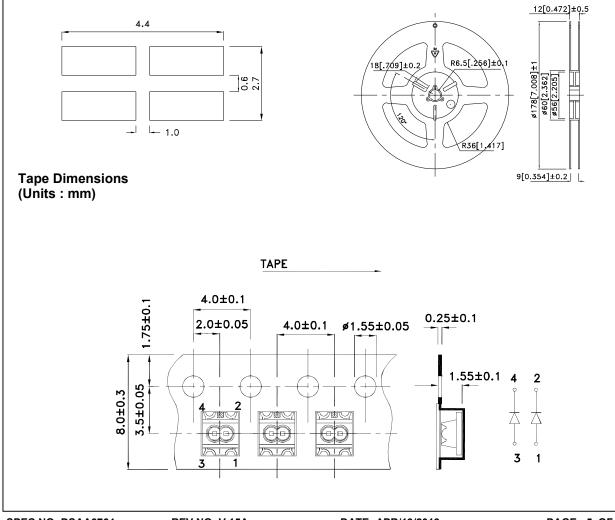
Reflow Soldering Profile For Lead-free SMT Process.



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**



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