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

Part Number: APB3025SRQGCPRV-F01

Super Bright Red Green

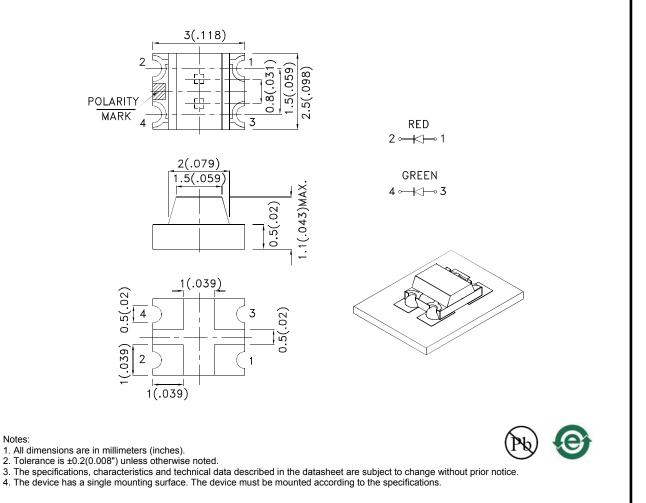
#### Features

- 3.0mmx2.5mm SMT LED, 1.1mm thickness.
- Bi-color,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 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**



SPEC NO: DSAF1327 APPROVED: WYNEC REV NO: V.4 CHECKED: Allen Liu DATE: JUN/09/2011 DRAWN: J.Yu PAGE: 1 OF 6 ERP: 1203000738

Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]			
			Min.	Тур.	201/2			
APB3025SRQGCPRV-F01	Super Bright Red (GaAlAs)	Water Clear	55	100	120°			
	Green (GaP)	Water Ciedi	4	12				

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%.

### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red Green	660 560		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	VF=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:

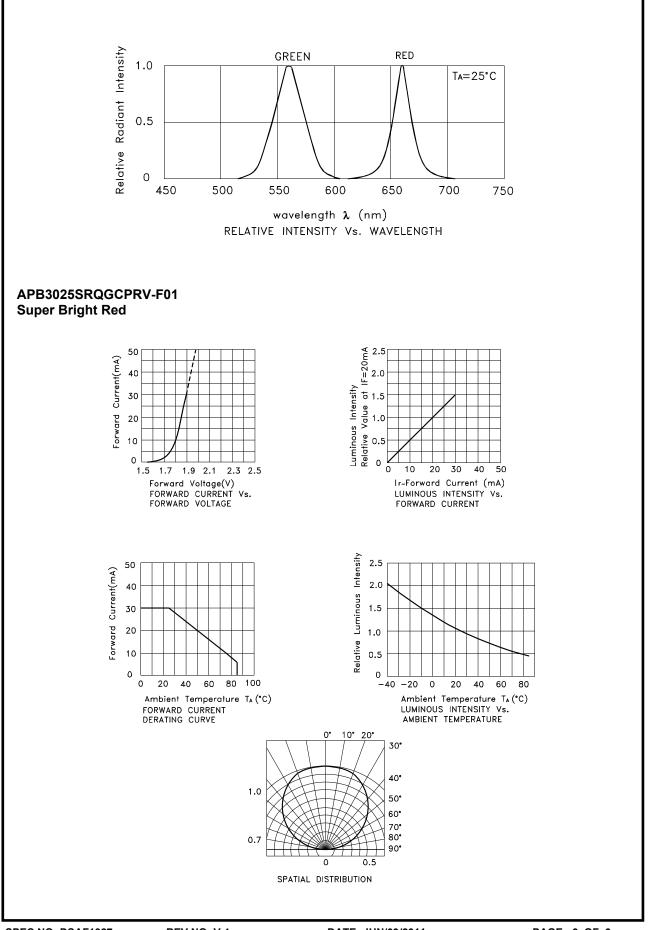
1.Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V.

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

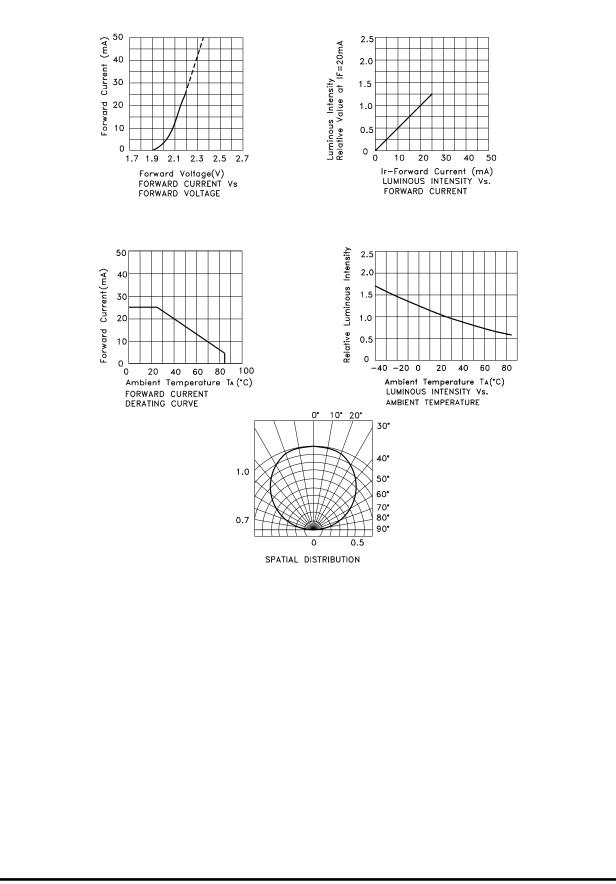
Parameter	Super Bright Red	Green	Units		
Power dissipation	75	62.5	mW		
DC Forward Current	30	25	mA		
Peak Forward Current [1]	155	130	mA		
Reverse Voltage		V			
Operating Temperature	-40°C To +85°C				
Storage Temperature	-40°C To +85°C				

Note:

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



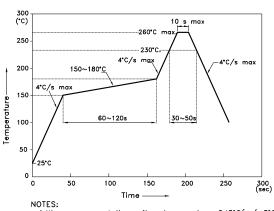
### Green



### APB3025SRQGCPRV-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.

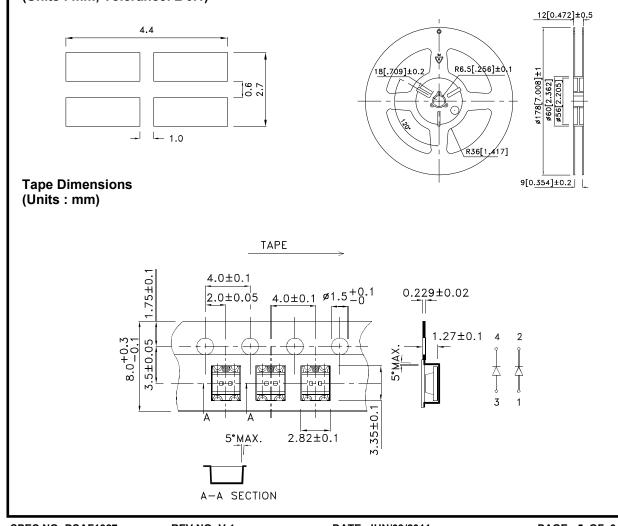
Reflow Soldering Profile For Lead-free SMT Process.



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.4 CHECKED: Allen Liu**  DATE: JUN/09/2011 DRAWN: J.Yu

PAGE: 5 OF 6 ERP: 1203000738

