3.0mmx1.0 mm RIGHT ANGLE SMD CHIP LED LAMP

Part Number: KPA-3010SRC-PRV

Super Bright Red

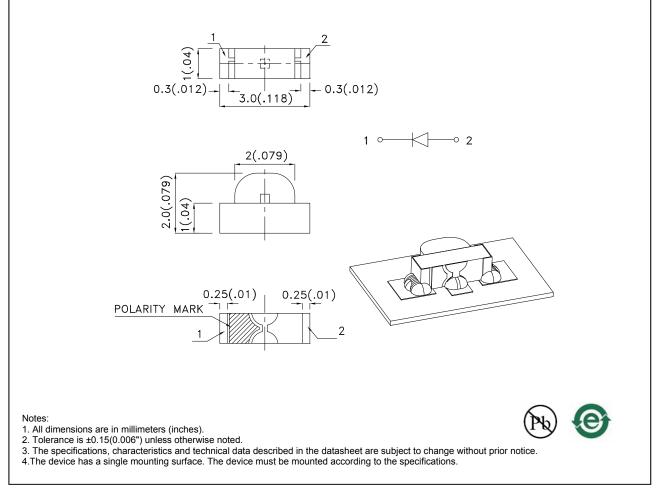
Features

- 3.0mmx1.0mm right angle SMT LED, 2.0mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for back light and indicator.
- Various colors and lens types available.
- Package : 2000pcs / reel.
- Moisture sensitivity level : level 3.
- Tinned pads for improved solderability.
- RoHS compliant.

Description

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

Package Dimensions



REV NO: V.12A CHECKED: Allen Liu DATE: NOV/17/2011 DRAWN: C.H.HAN PAGE: 1 OF 5 ERP: 1203000635

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPA-3010SRC-PRV	Super Bright Red (GaAlAs)	Water Clear	55	100	120°
		Water Clear	12*	30*	

Notes:

1. 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.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660	655*		nm	IF=20mA		
λD [1]	Dominant Wavelength	Super Bright Red	640	640*		nm	IF=20mA		
Δλ1/2	Spectral Line Half-width	Super Bright Red	20			nm	I⊧=20mA		
С	Capacitance	Super Bright Red	45			pF	VF=0V;f=1MHz		
Vf [2]	Forward Voltage	Super Bright Red	1.85		2.5	V	I⊧=20mA		
lr	Reverse Current	Super Bright Red			10	uA	VR=5V		

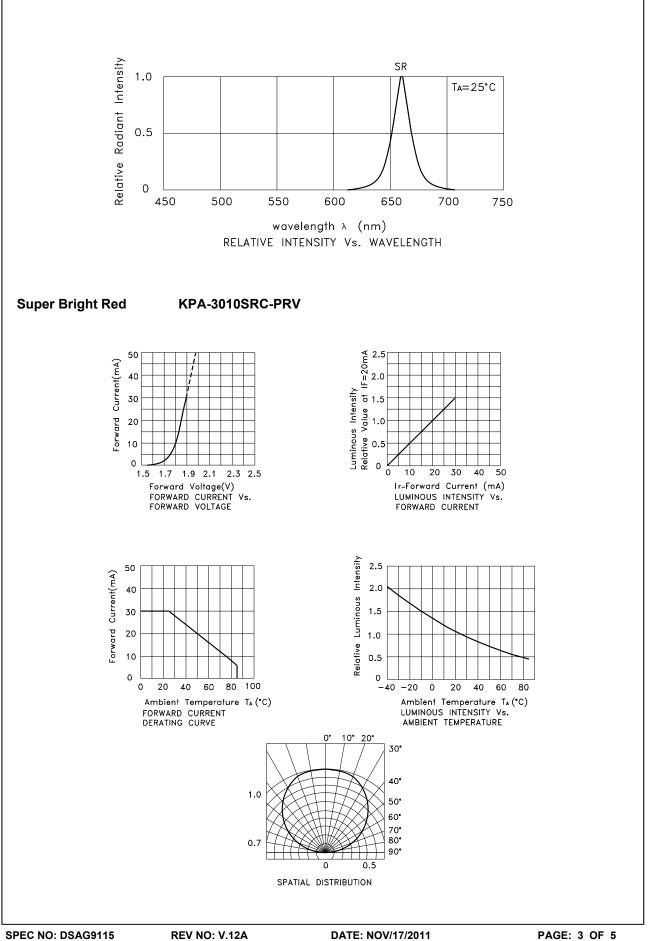
Notes: 1. Wavelength: +/-1nm. 2. Forward Voltage: +/-0.1V. * Wavelength value is traceable to the CIE127-2007 compliant national standards.

Absolute Maximum Ratings at TA=25°C

Parameter	Super Bright Red	Units		
Power dissipation	75	mW		
DC Forward Current	30	mA		
Peak Forward Current [1]	155	mA		
Reverse Voltage	5	V		
Operating Temperature	-40°C To +85°C			
Storage Temperature	-40°C To +85°C			

Note:

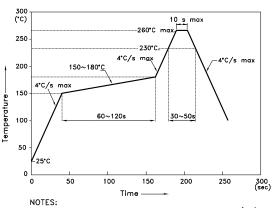
1. 1/10 Duty Cycle, 0.1ms Pulse Width.



KPA-3010SRC-PRV

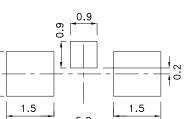
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

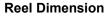
Reflow Soldering Profile For Lead-free SMT Process.

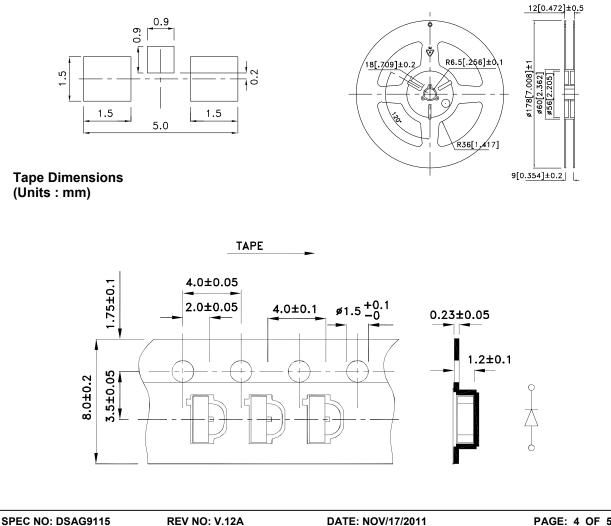


NOTES: 1.We recommend the reflow temperature 245°C(+/-5°C).The maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.Number of reflow process shall be 2 times or less.

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







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