### 2.0x1.25mm SMD CHIP LED LAMP

Part Number: KP-2012SRC-PRV Super Bright Red

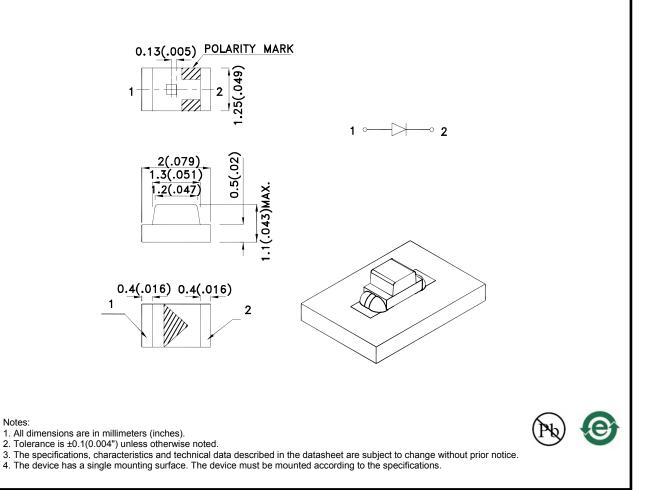
#### Features

- 2.0mmx1.25mm SMT LED,1.1mm thickness.
- Low power consumption.
- Wide viewing angle.
- Ideal for backlight and indicator.
- Various colors and lens types available.
- 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.

#### **Package Dimensions**



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### Soloction Guida

Selection Guide					
Part No.	Dice			Viewing Angle [1]	
			Min.	Тур.	201/2
KP-2012SRC-PRV	Super Bright Red (GaAlAs)	WATER CLEAR	36	100	120°

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	660		nm	I⊧=20mA	
λD [1]	Dominant Wavelength	Super Bright Red	640		nm	I⊧=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	
IR	Reverse Current	Super Bright Red		10	uA	VR=5V	

Notes:

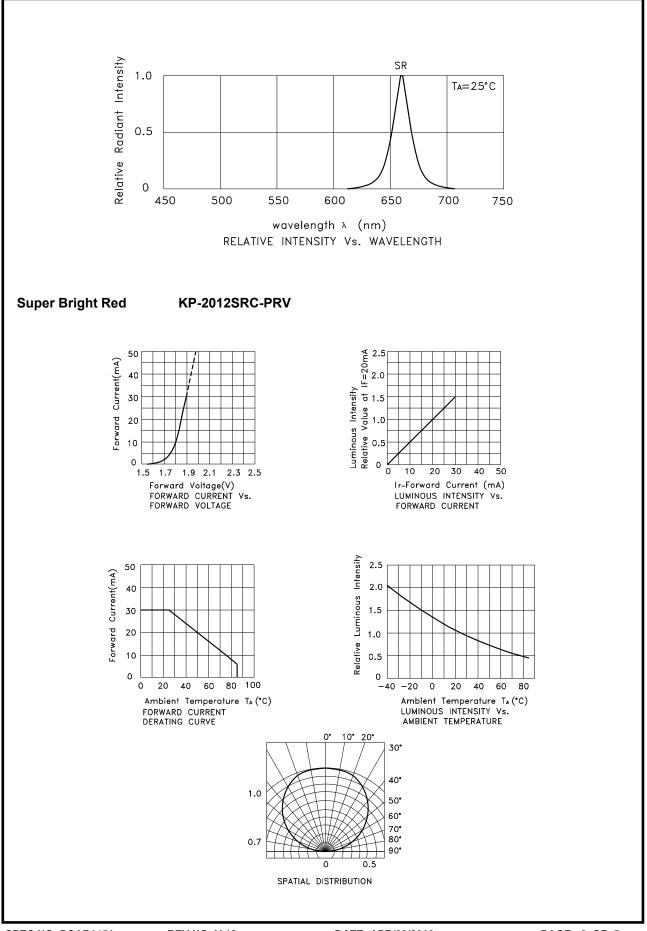
1.Wavelength: +/-1nm.

2. Forward Voltage: +/-0.1V.

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

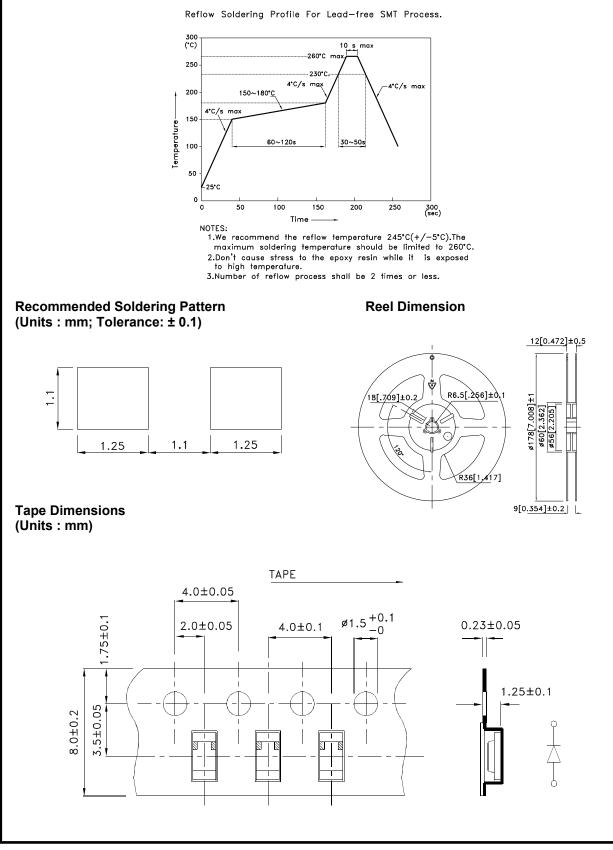
Parameter	Super Bright Red	Units	
Power dissipation	75	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	155	mA	
Reverse Voltage	5	V	
Operating Temperature	-40°C To +85°C		
Storage Temperature	-40°C To +85°C		

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



### KP-2012SRC-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.



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