1.6X0.8mm SMD CHIP LED LAMP

Super Bright Red Part Number: APT1608SRCPRV

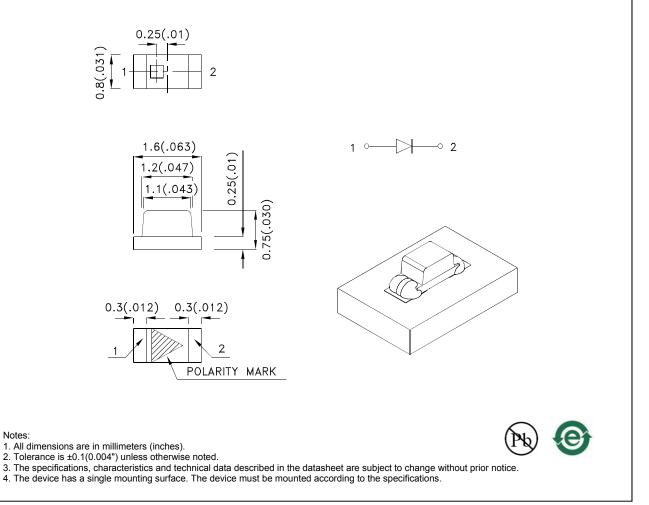
Features

- 1.6mmX0.8mm SMT LED, 0.75mm 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



SPEC NO: DSAB3726 APPROVED: WYNEC

Notes:

REV NO: V.13A CHECKED: Allen Liu DATE: DEC/28/2011 DRAWN: D.M.Su

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Selection Guide	Dice	Lens Type	lv (mc @ 20	Viewing Angle [1]	
			Min.	Тур.	201/2
APT1608SRCPRV	Super Bright Red (GaAlAs)	Water Clear	55	100	120°
		Water Clear	*12	*30	

Notes:

1. θ 1/2 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

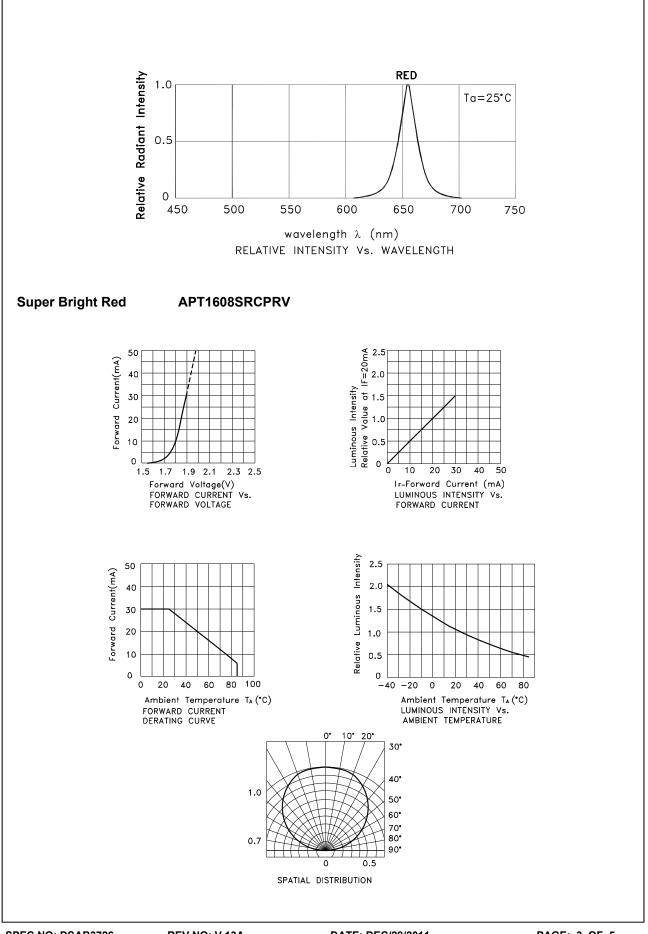
Symbol	Parameter	Device	Тур.		Тур.		Max.	Units	Test Conditions
λpeak	Peak Wavelength	Super Bright Red	660	*655		nm	I⊧=20mA		
λD [1]	Dominant Wavelength	Super Bright Red	640	*640		nm	I⊧=20mA		
Δλ1/2	Spectral Line Half-width	Super Bright Red	20			nm	I⊧=20mA		
С	Capacitance	Super Bright Red	45			pF	VF=0V;f=1MHz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

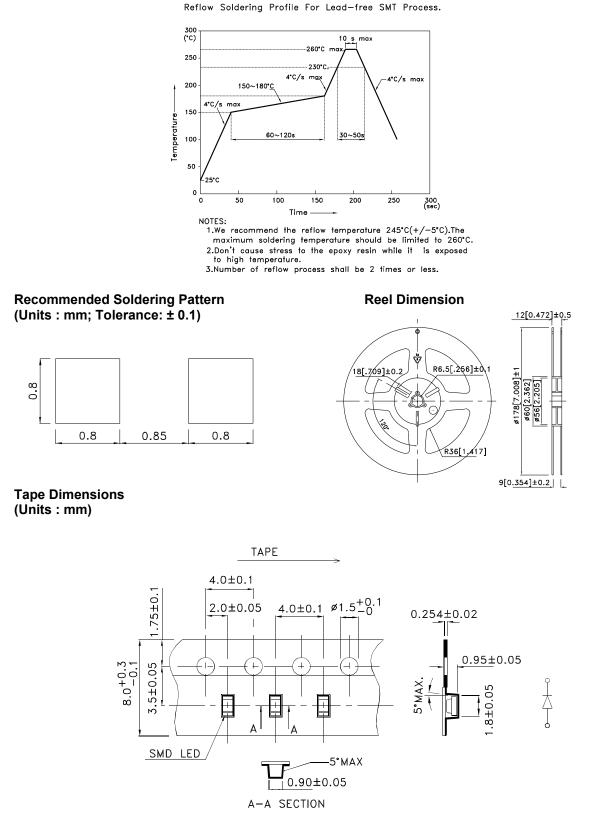
Note: 1. 1/10 Duty Cycle, 0.1ms Pulse Width.



APT1608SRCPRV

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.



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