### 3.2mmx1.6mm SMD CHIP LED LAMP

Part Number: KPT-3216SRD-PRV

Super Bright Red

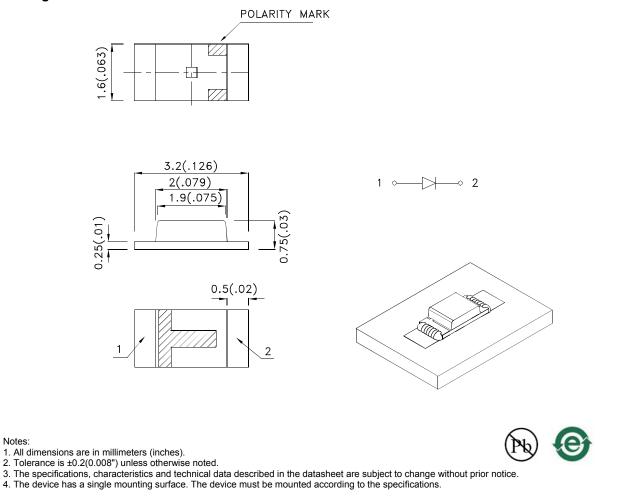
#### Features

- 3.2mmx1.6mm 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: DSAG9127 APPROVED: WYNEC REV NO: V.8A CHECKED: Allen Liu DATE: JUN/27/2012 DRAWN: F.Cui PAGE: 1 OF 5 ERP: 1203001975

### Solaction Guida

Selection Guide					
Part No.	Dice	Lens Type	lv (mcd) [2] @ 20mA		Viewing Angle [1]
			Min.	Тур.	201/2
KPT-3216SRD-PRV	Super Bright Red (GaAlAs)	Red Diffused	55	80	120°
		Rea Dinusea	*12	*25	

Notes:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

2. 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	*655 nm		I⊧=20mA		
λD [1]	Dominant Wavelength	Super Bright Red	640	*640		nm	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.

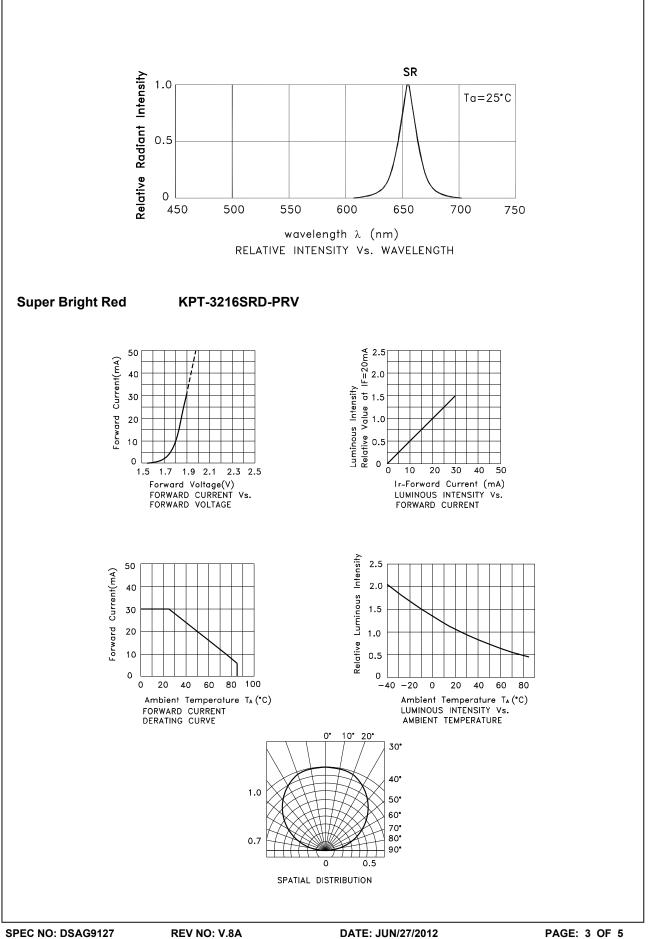
2. Forward Voltage: +/-0.1V. \*Wavelength value is traceable to the CIE127-2007 compliant national standards.

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

Parameter	Super Bright Red			
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			

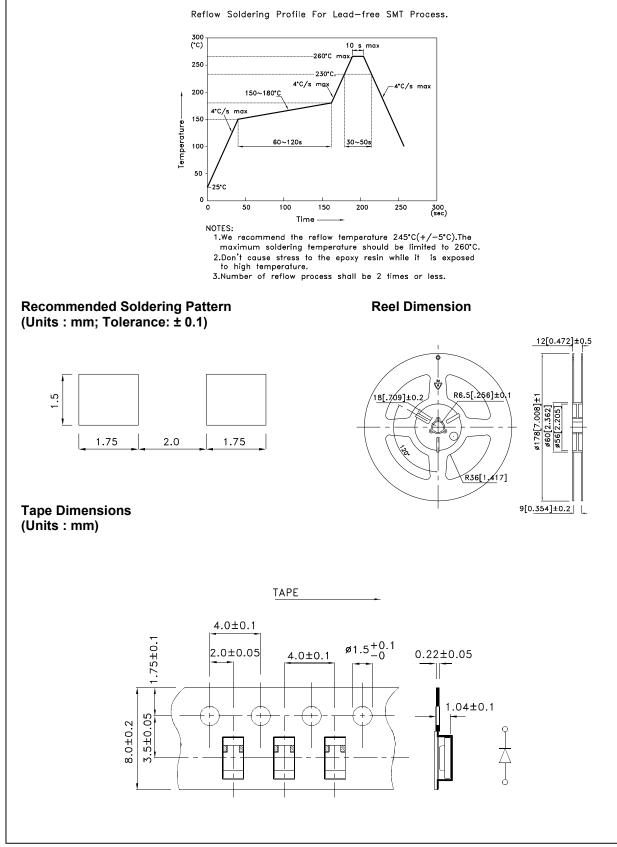
Note:

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



### KPT-3216SRD-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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