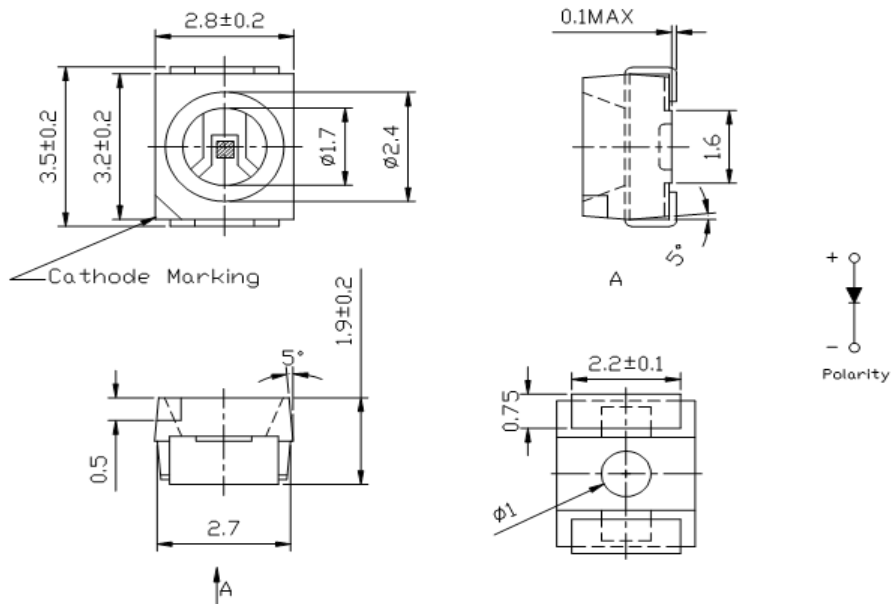




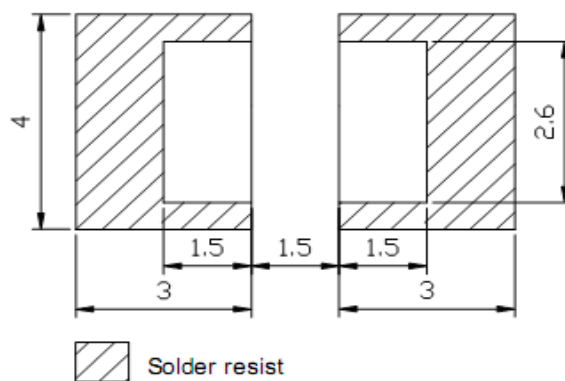
**Applications**

- Interior automotive lighting
- Optical indicators
- Communication Products
- Backlighting
- Toys

**Technical Drawing**



**Recommended Soldering Pattern**



**Notes :**

All dimensions in mm tolerance is  $\pm 0.1\text{mm}$  unless otherwise noted.

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**Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	---	Unit
Power Dissipation	P <sub>D</sub>	80	mW
DC Forward Current	I <sub>F</sub>	30	mA
Pulsed Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	V <sub>R</sub>	---	V
Operating Temperature	T <sub>OP</sub>	-40 to 95	°C
Storage Temperature	T <sub>ST</sub>	-40 to 100	°C

\* 0.1 msec pulse, 10% duty cycle

**Electrical / Optical Characteristics**

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color	Red		
Material	---		
Forward Voltage	typ.	1.8	V <sub>F</sub>
	max.	2.0	V <sub>F</sub>
Wavelength typ.	λ <sub>D</sub>	620	nm
	λ <sub>P</sub>	625	nm
	Δλ	---	nm
Color Temperature	min.	---	K
	max.	---	K
Luminous Intensity *	min.	230	mcd
	typ.	320	mcd
Reverse Current	max.	10	μA
Viewing Angle	2Θ1/2	120	

\* Per NIST standards

**Ranks Combination**

I<sub>F</sub>=20mA

Rank	P1	P2	Q1	
Luminous Intensity	230~288	288~360	360~450	mcd

**PLCC2**  
**Red**

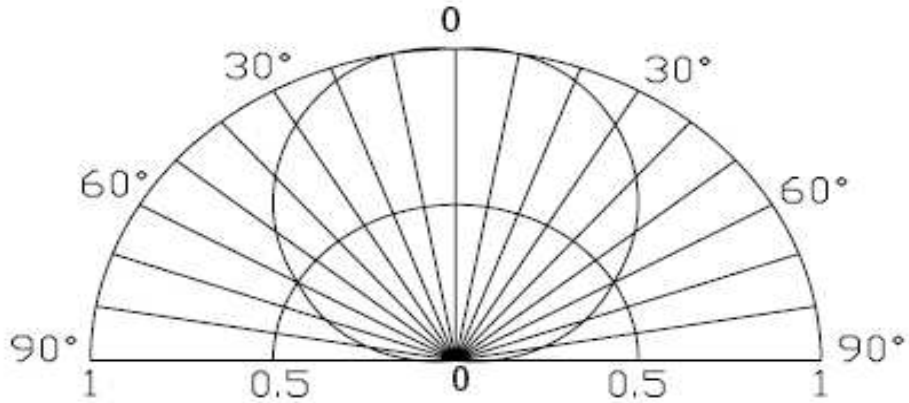
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**Directive Characteristics**

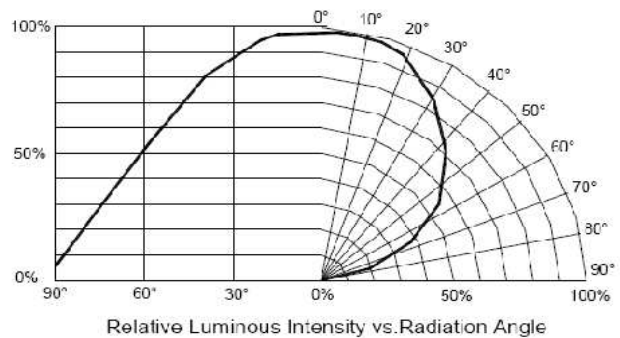
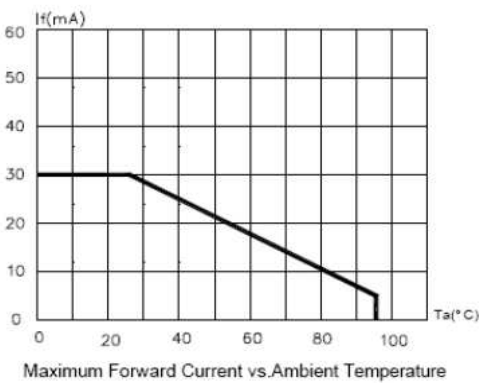
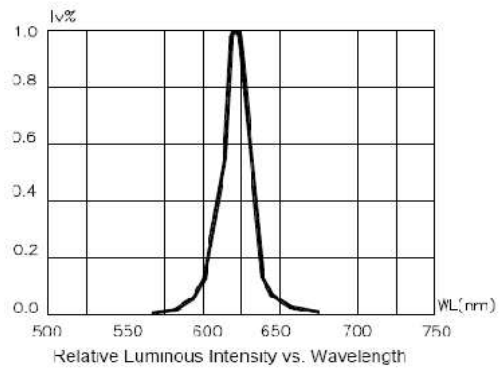
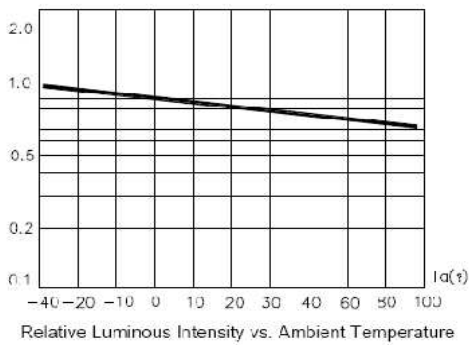
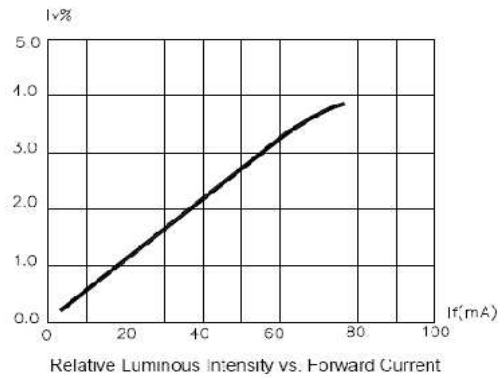
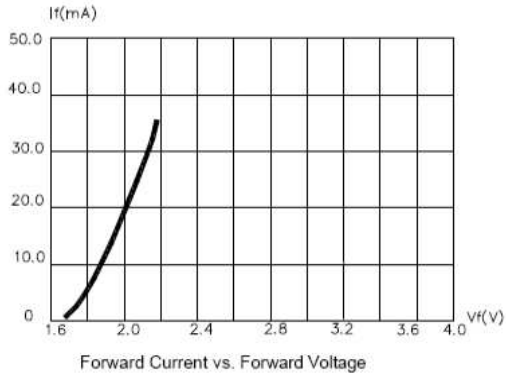


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**Curvs**



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**Solder Condition**

**Lead Free Solder**



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**Packing Specifications**



**Reel Specifications**



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### Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Outside impact may scratch the silicone lens or damage the internal circuitry.



**PLCC2**  
**Red**

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4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.



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**Color table curve**



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