



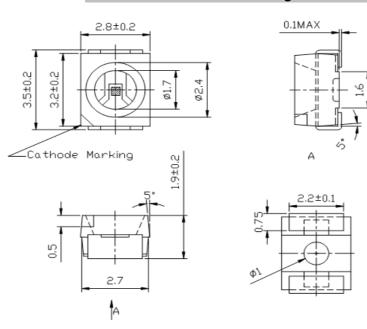




Applications

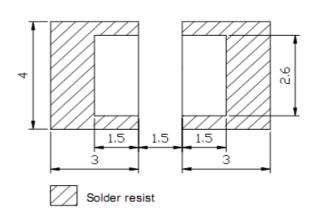
- Interior automotive lighting
 - Optical indicators
- Communication Products
 - Backlighting
 - Toys

Technical Drawing





Recommended Soldering Pattern



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

PL	CC2
Υe	llow

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Absolute Maximum Ratings

Ta=25°C

Item	Symbol		Unit
Power Dissipation	P_{D}	80	mW
DC Forward Current	I _F	30	mA
Plused Forward Current	I _{FP} *	100	mA
Reverse Voltage	V_R		V
Operating Temperature	T _{OP}	-40 to 95	°C
Storage Temperature	T _{ST}	-40 to 100	°C

^{* 0.1} msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Yellow				
Material						
Forward Voltage	typ.	1.8	V_{F}			
Torward voitage	max.	2.0	V_{F}			
Wavelength	λD	586	nm			
	λP	590	nm			
typ.	Δλ		nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	230	mcd			
Lummous intensity	typ.	320	mcd			
Reverse Current	max.	10	μΑ			
Viewing Angle	201/2	120				

^{*} Per NIST standards

Ranks Combination

 $I_F=20mA$

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

PLCC2 Yellow

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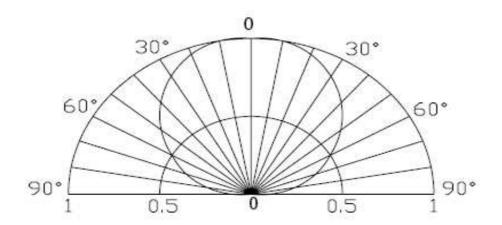








Directive Characteristics



PLCC2 Yellow

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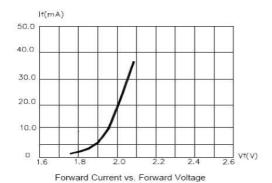


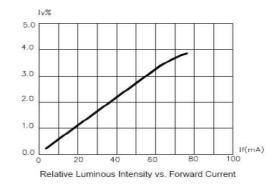


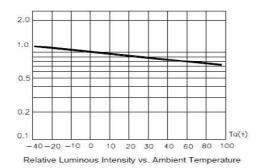


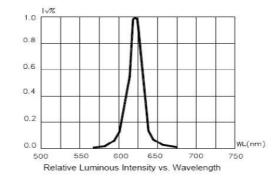


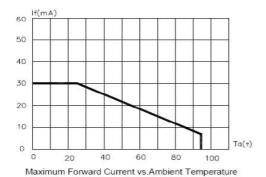
Curvs

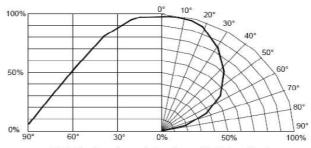












Relative Luminous Intensity vs. Radiation Angle

	PLCC2
	Yellow
Part No ·	Μ11Δ117

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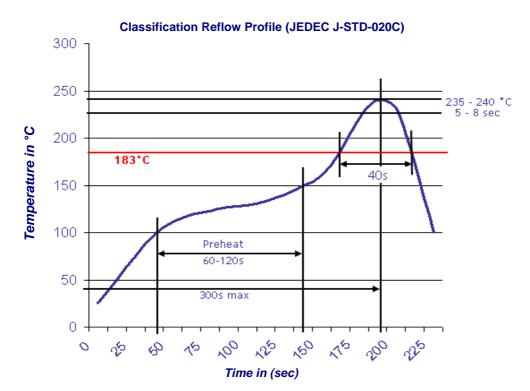






Solder Condition

Lead Free Solder



PLCC2	
Yellow	

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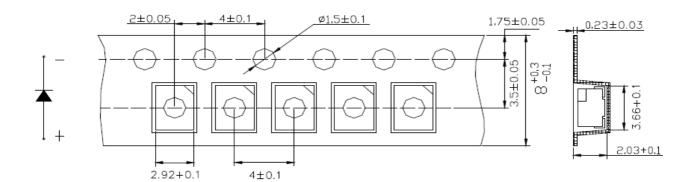




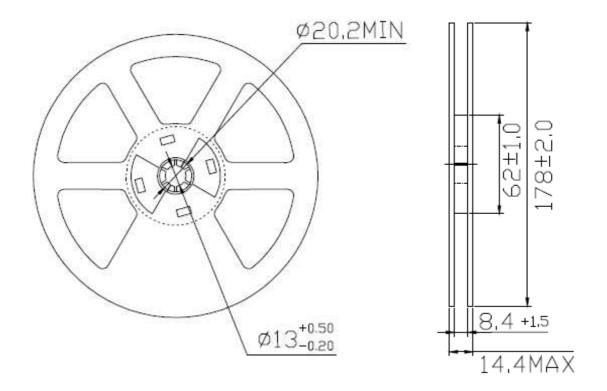




Packing Specifications



Reel Specifications



Yellow	PLCC2	
	Yellow	

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Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although ist 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 leads to damage and premature failure of th 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 surfance. 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.



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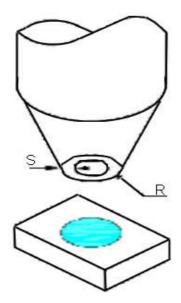








- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6.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



PLCC2	2
Yellow	,

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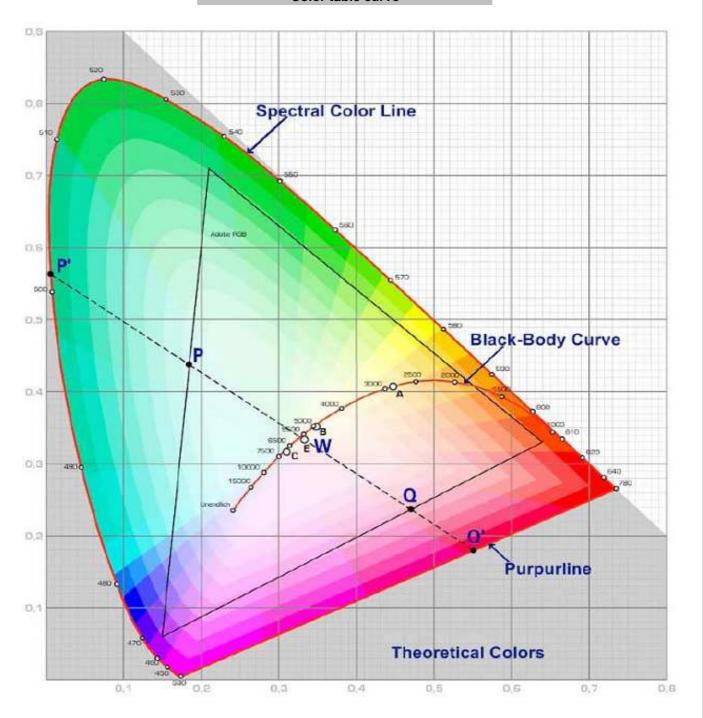








Color table curve



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