



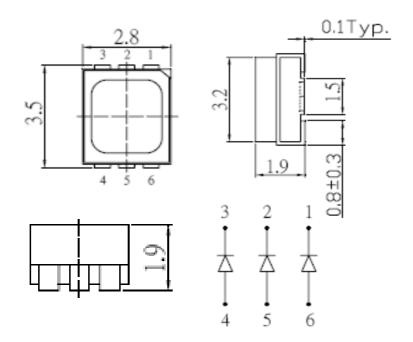




#### **Applications**

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

# **Technical Drawing**



#### Notes:

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

PLCC6	
Red	

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# **Absolute Maximum Ratings**

Item	Symbol		Unit
Power Dissipation	$P_{D}$	234	mW
DC Forward Current	I <sub>F</sub>	90	mA
Plused Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature	T <sub>OP</sub>	-30 to 85	°C
Storage Temperature	$T_{ST}$	-40 to 100	°C

<sup>\* 0.1</sup> msec pulse, 10% duty cycle

# **Electrcal / Optical Characteristics**

Ermitting Color	Red					
Material						
Forward Voltage	typ.	2.1	$V_{F}$			
Torward voitage	max.	2.6	$V_{F}$			
Wavelength	λD	620 ~ 630	nm			
	λP		nm			
typ.	Δλ		nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	2180	mcd			
Lummous intensity	typ.	3000	mcd			
Reverse Current	max.		μA			
Viewing Angle	2Θ1/2	120				

<sup>\*</sup> Per NIST standards

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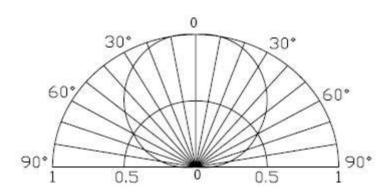








# **Directive Characteristics**



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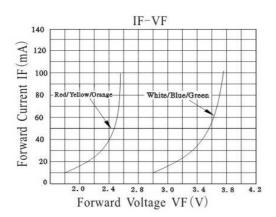


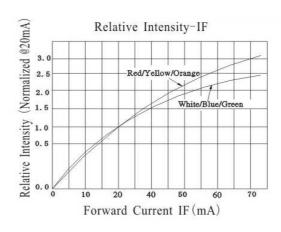


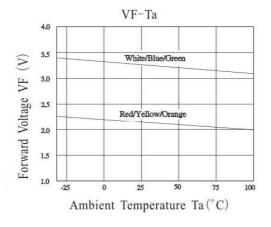


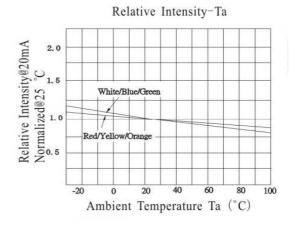


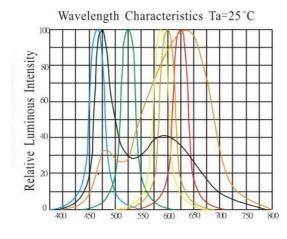
#### **Typical Characteristics**

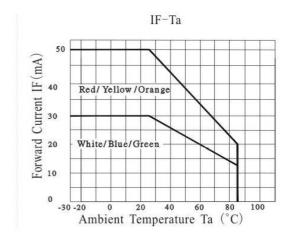












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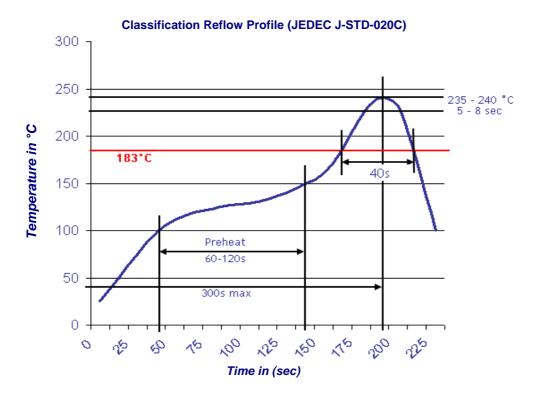






# **Solder Condition**

#### Lead Free Solder



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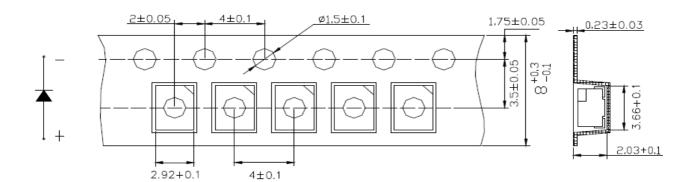




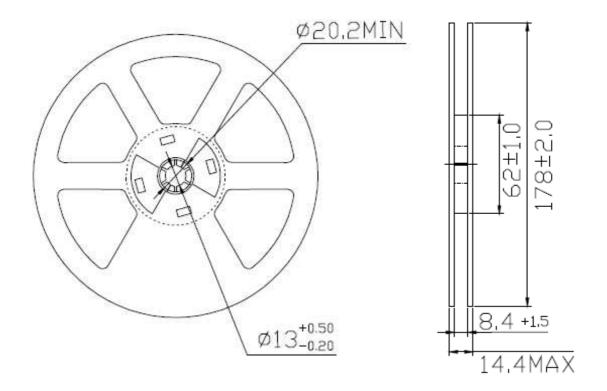




# **Packing Specifications**



# **Reel Specifications**



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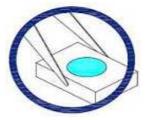




#### **Handling Precautions**

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although 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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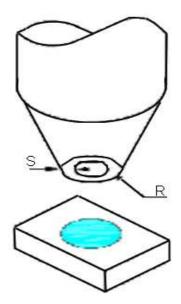








- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6.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



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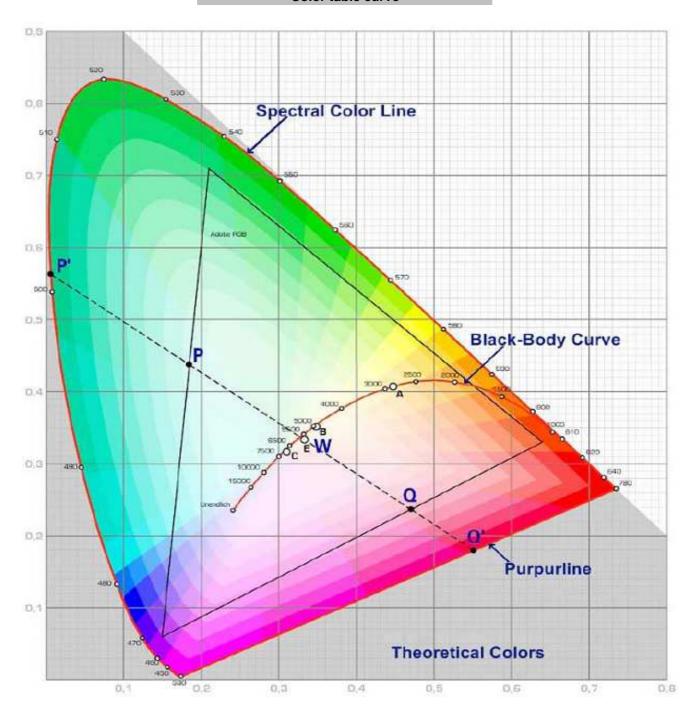








# Color table curve



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