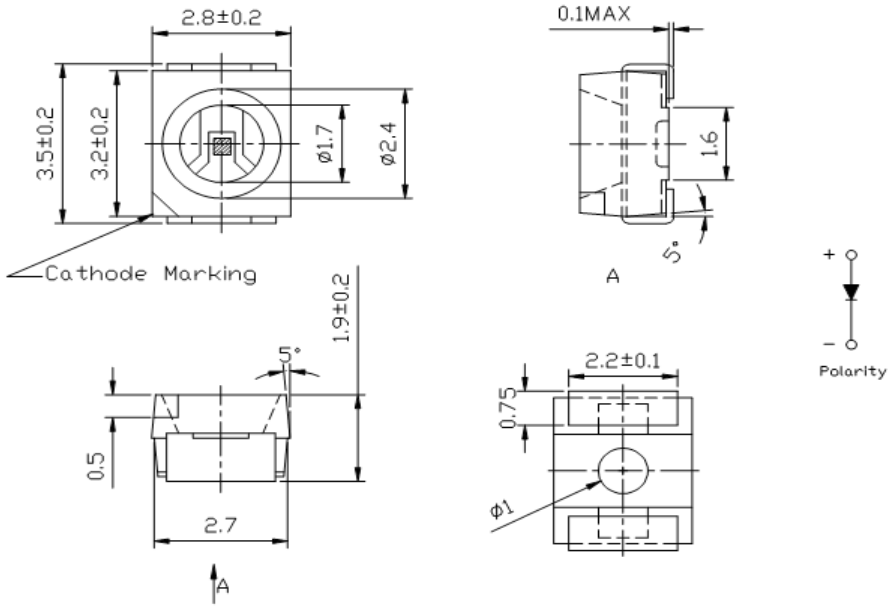
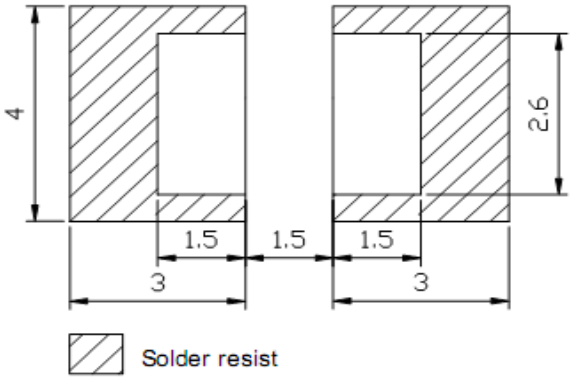
Applications

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

Technical Drawing



Recommended Soldering Pattern



Notes :

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

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Absolute Maximum Ratings

Ta=25°C

Item	*Symbol*	*---*	*Unit*
Power Dissipation	P_D	120	mW
DC Forward Current	I_F	30	mA
Plused Forward Current	I_{FP}*	100	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{OP}	-30 to 85	°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	Blue		
Material	---		
Forward Voltage	typ.	3.1	V_F
	max.	3.6	V_F
Wavelength typ.	λD	465	nm
	λP	470	nm
	Δλ	---	nm
Color Temperature	min.	---	K
	max.	---	K
Luminous Intensity *	min.	280	mcd
	typ.	400	mcd
Reverse Current	max.	10	μA
Viewing Angle	2Θ1/2	120	

* Per NIST standards

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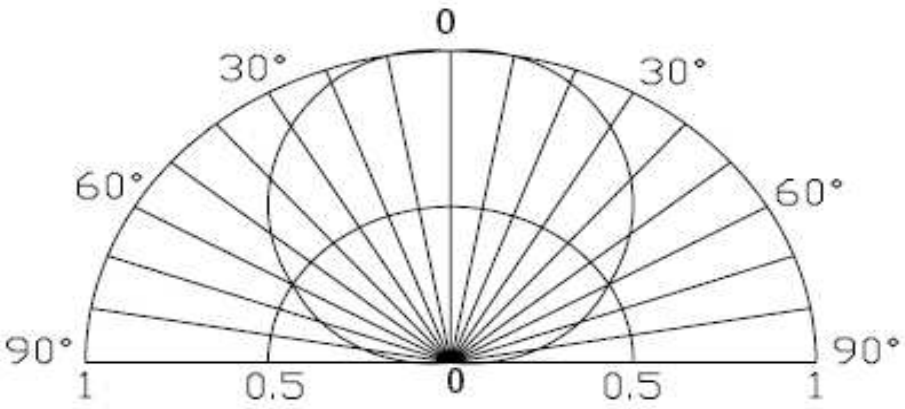
Directive Characteristics



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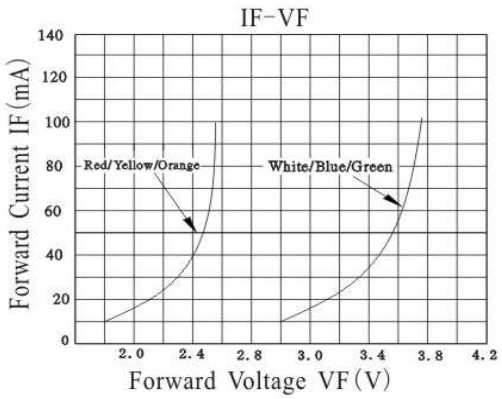
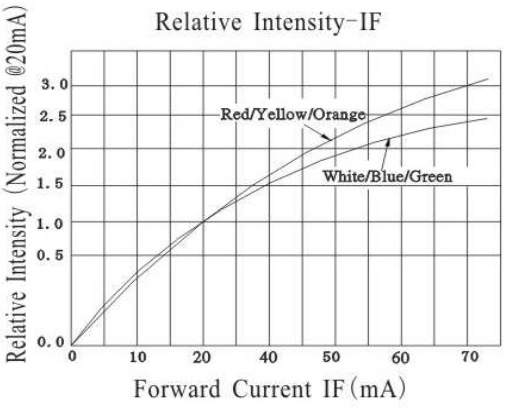
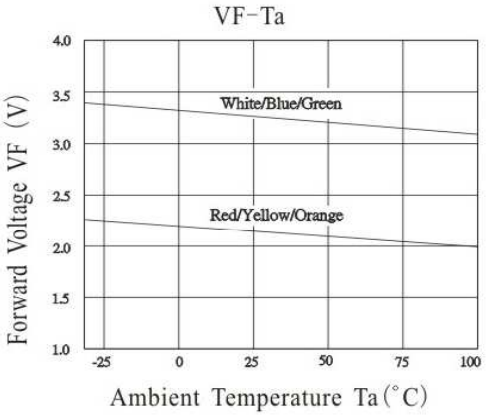
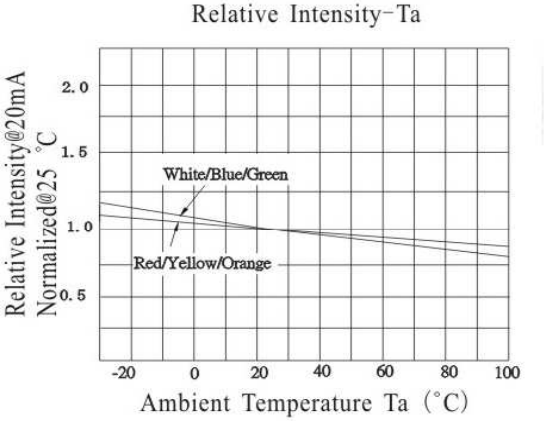
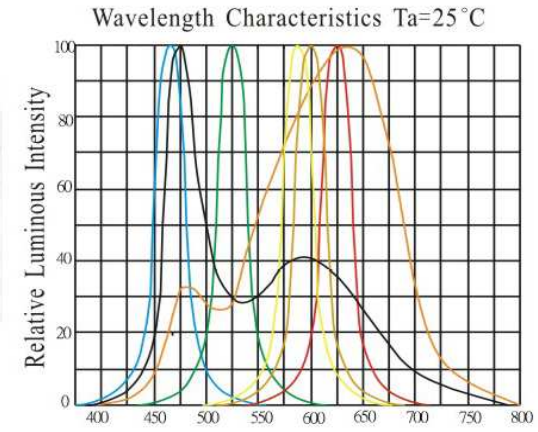
Typical Characteristics

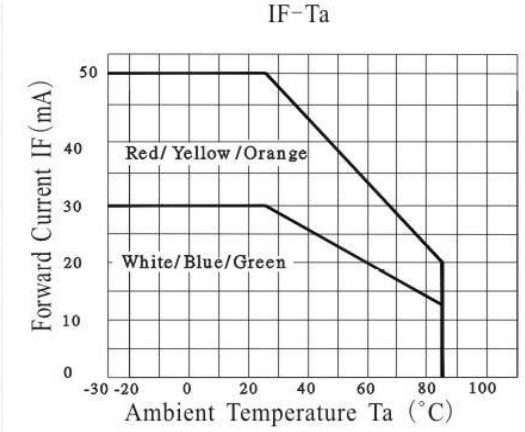












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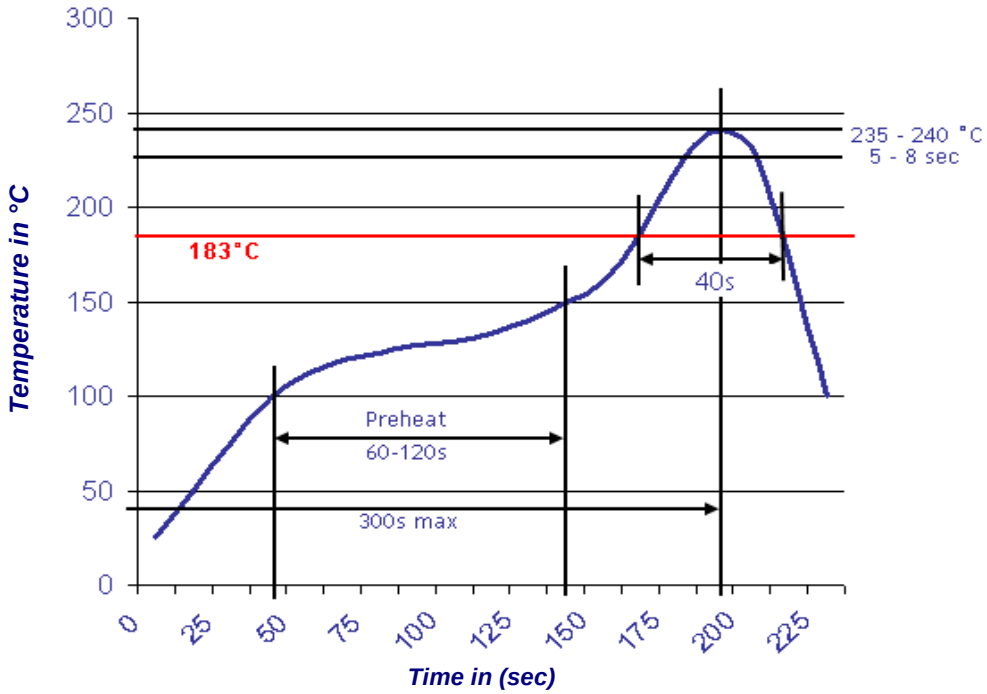
Solder Condition

Lead Free Solder

Classification Reflow Profile (JEDEC J-STD-020C)



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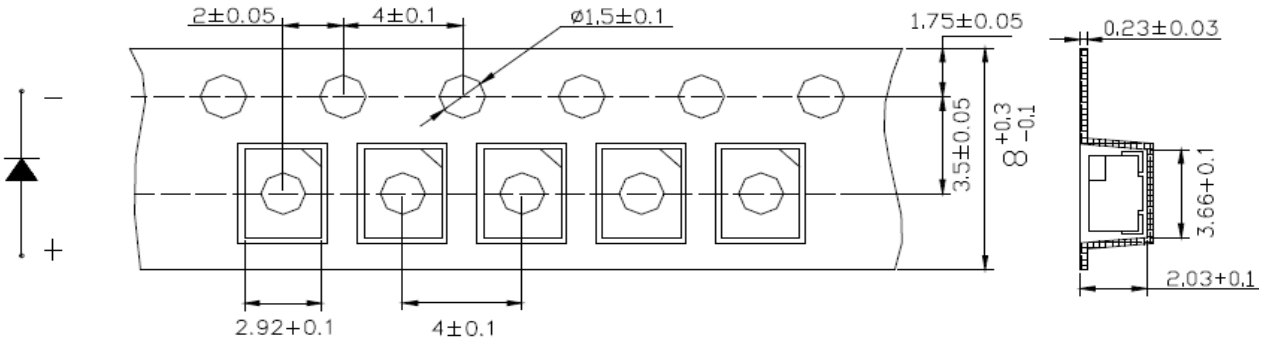
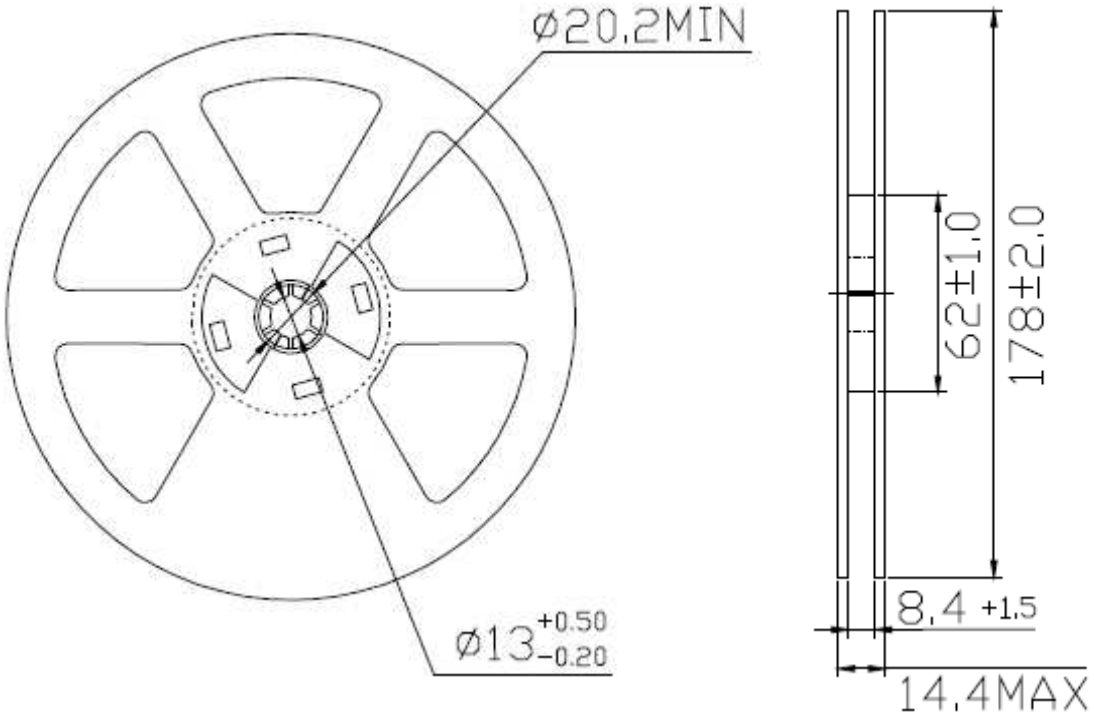
Packing Specifications



Reel Specifications



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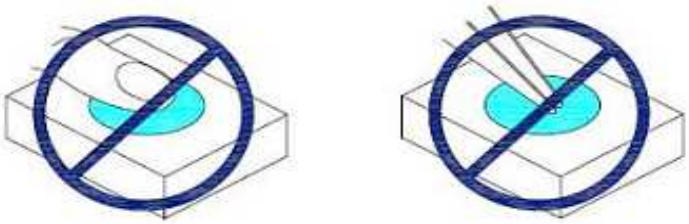
Handling Precautions

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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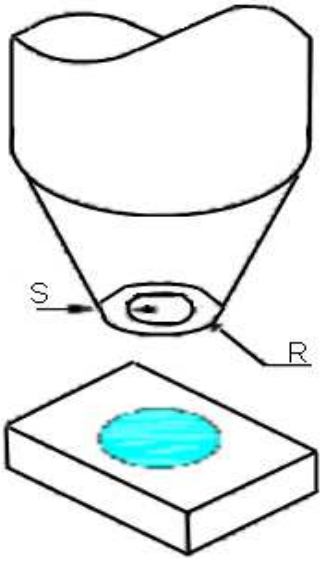
4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.

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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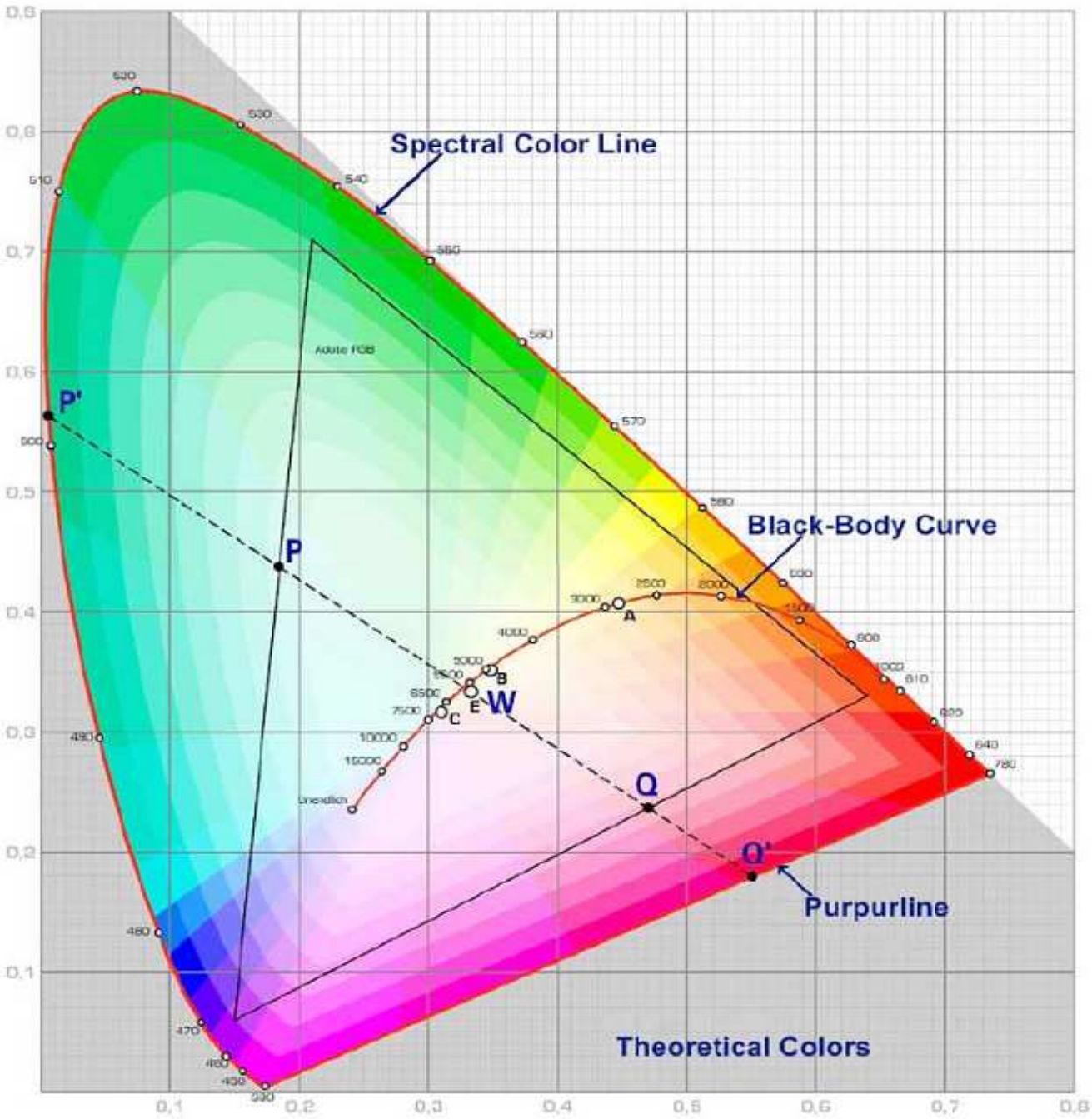
Color table curve



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