

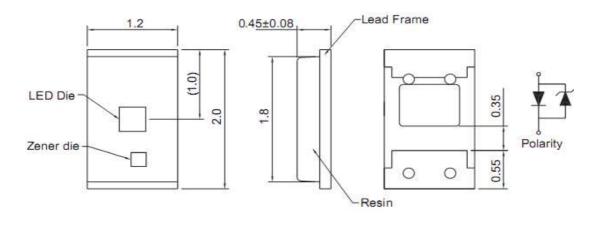


Applications

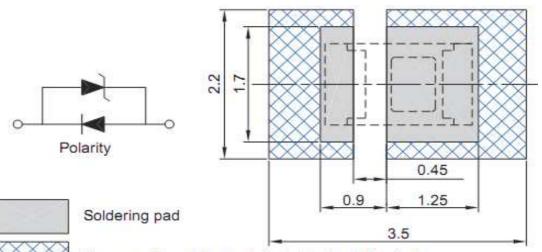
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern



Cu area with solder mask for better heat dissipation

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DRW:

APPD:

All dimensions in mm tolerance is

CHKD

 \pm 0.1mm unless otherwise noted.

SMT Top View LED White						
	Part No.: M11B5001					
	Custome	er:				
MATL:	Chui DATE 03.12.200					
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Wang

Ping

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Wung





Absolute Maximum Ratings

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	PD	72	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 80	°C
Storage Temperature	T _{ST}	-40 to 85	°C

* 0.1 msec pulse, 10% duty cycle

	-						
Ermitting Color		White					
Material		InGaN					
Forward Voltage	typ.	3.4	V _F				
Forward voltage	max.	3.9	V _F				
Wavelength	λD	x = 0.29 y = 0.31	nm				
u u u u u u u u u u u u u u u u u u u	λP		nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
Color Temperature	max.		K				
Luminous Intensity *	min.	3600	mcd				
Luminous intensity	typ.	4000	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	120					

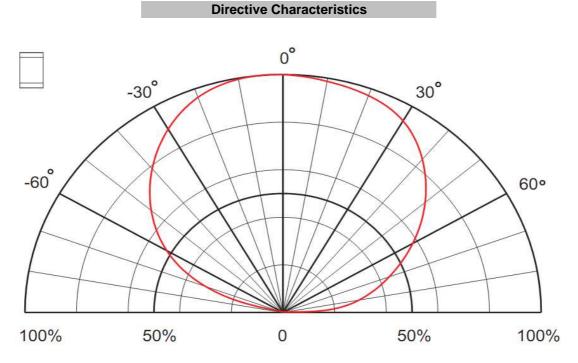
Electrcal / Optical Characteristics I_F=150mA Ta=25°C

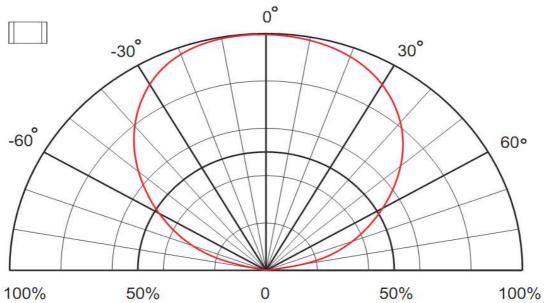
* Per NIST standards

					SN	IT Top View L White	ED			
					Part No.: M11B5001					
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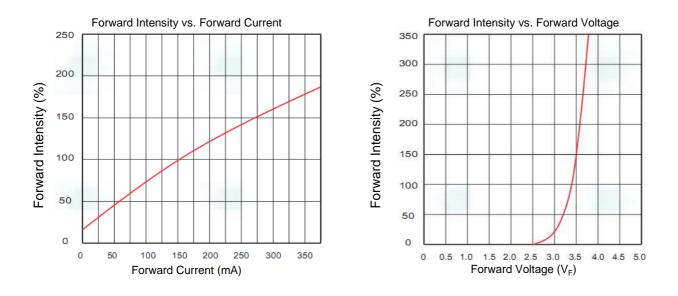
				SMT Top View LED White			LED		
					Part No.: M11B5001				
					Custome	er:			
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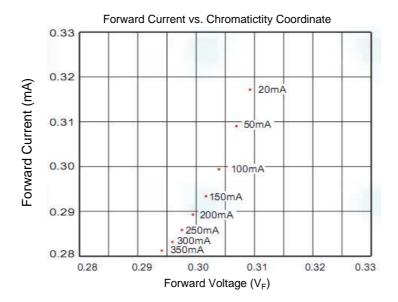
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Curvs





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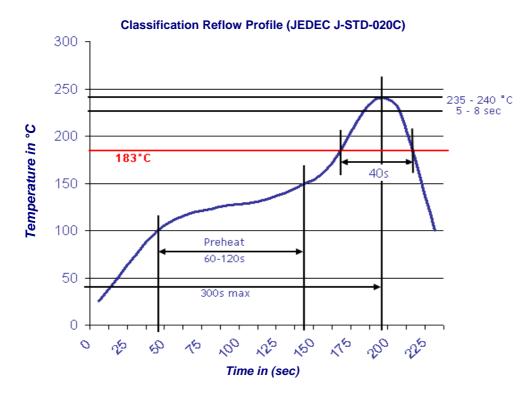
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Solder Condition

Lead Free Solder



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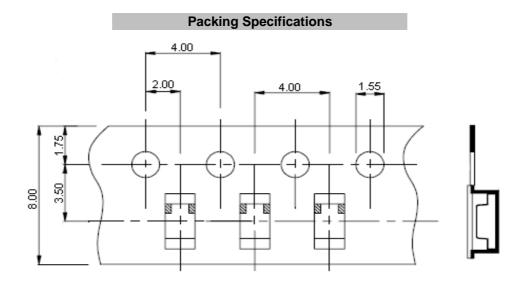
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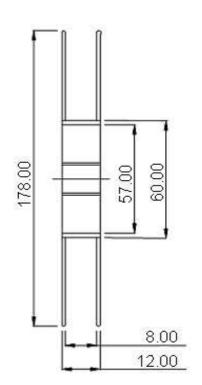
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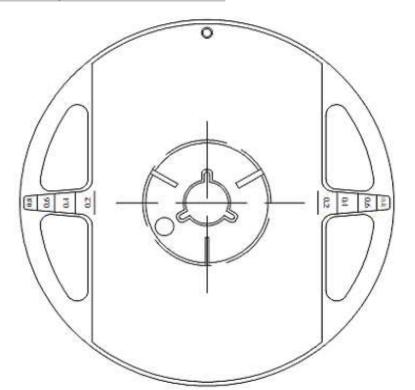






Reel Specifications





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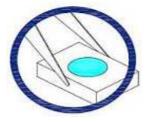




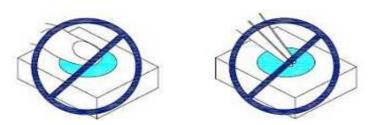
Handling Precautions

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.



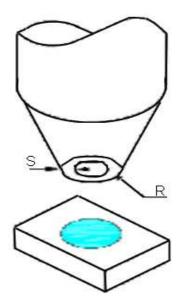
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching 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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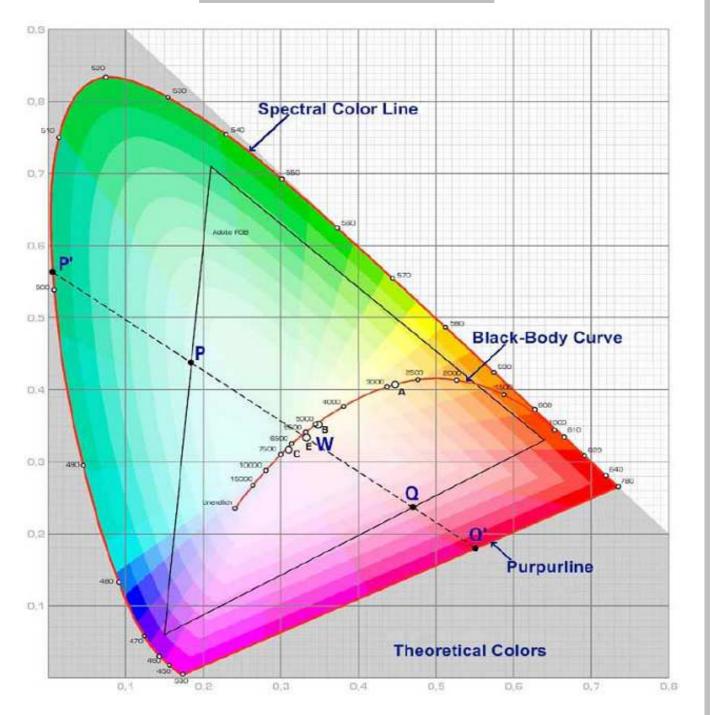
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Color table curve



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