

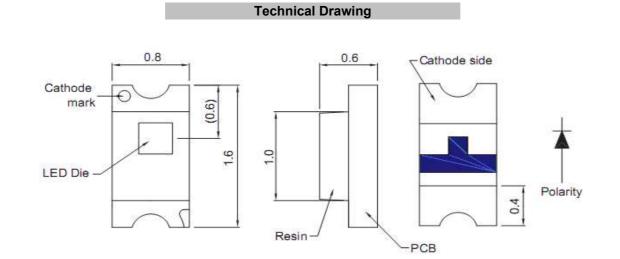


#### Applications

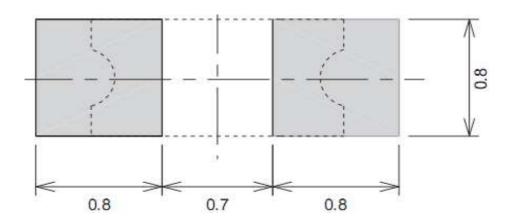
Interior automotive lighting

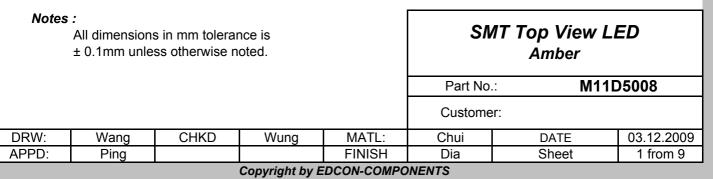
 Optical indicators
 Communication Products
 Backlighting

 Toys



**Recommended Soldering Pattern** 









# **Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	AllnGaP	Unit
Power Dissipation	PD	72	mW
DC Forward Current	I <sub>F</sub>	30	mA
Plused Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-30 to 80	°C
Storage Temperature	T <sub>ST</sub>	-40 to 85	°C

\* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color		Amber				
Material		AllnGaP				
Forward Voltage	typ.	1.9	V <sub>F</sub>			
r orward voltage	max.	2.4	V <sub>F</sub>			
Wavelength	λD	605	nm			
-	λP	609	nm			
typ.	Δλ	17	nm			
Color Temperature	min.		K			
color remperature	max.		K			
Luminous Intensity *	min.	40	mcd			
Editifious intensity	typ.	95	mcd			
Reverse Current	max.		μA			
Viewing Angle	2Θ1/2	140				

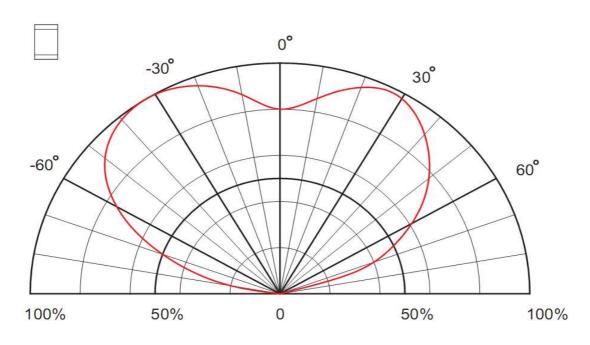
\* Per NIST standards

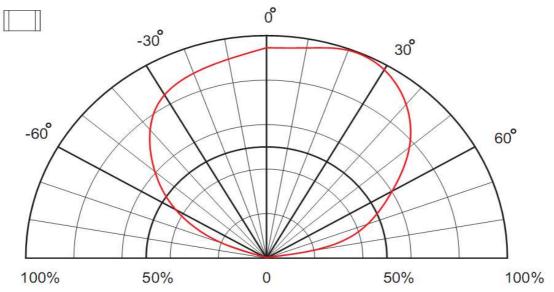
					SMT Top View LED Amber						
					Part No.: M11D		D5008				
					Custome	er:					
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009				
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**Directive Characteristics** 





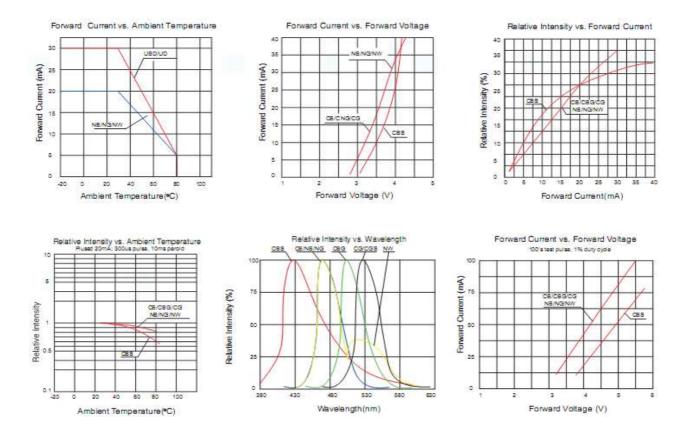
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					Part No.: <b>M11D5008</b>		1D5008			
					Custome	er:				
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009			
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Curvs



					SMT Top View LED Amber				
					Part No.: <b>M11D5008</b>		D5008		
					Custome	er:			
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009		
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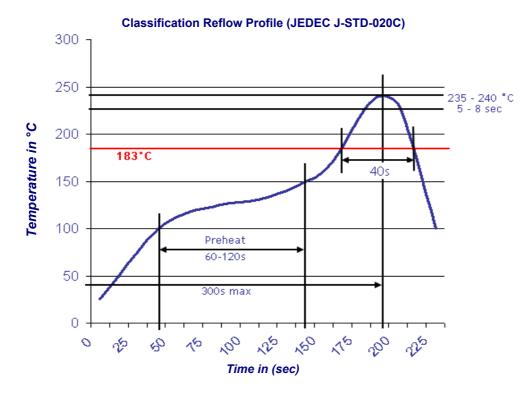
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### **Solder Condition**

# Lead Free Solder



				SMT Top View LED Amber			
				Part No.: <b>M11D5008</b>		D5008	
				Customer:			
Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
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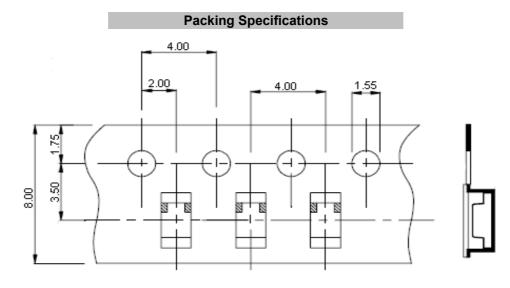
DRW:

APPD:

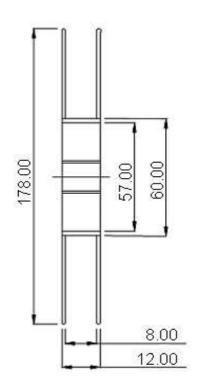
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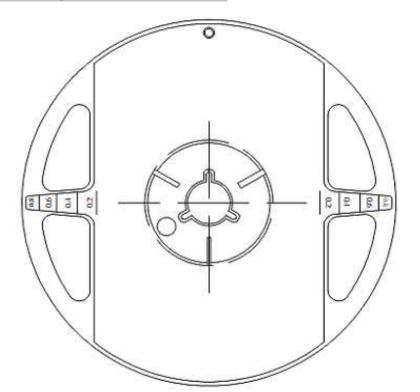






**Reel Specifications** 





					SMT Top View LED Amber		
					Part No.: <b>M11D5008</b>		D5008
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
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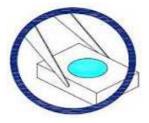




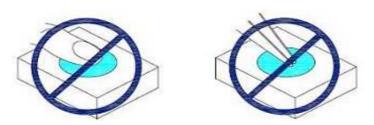
### Handling Precautions

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.



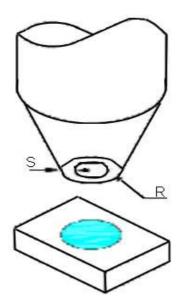
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					Part No.	Part No.: <b>M11D5008</b>	
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be 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.



		SMT Top View LED Amber				
		Part No	lo.: M11D5008			
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Wang

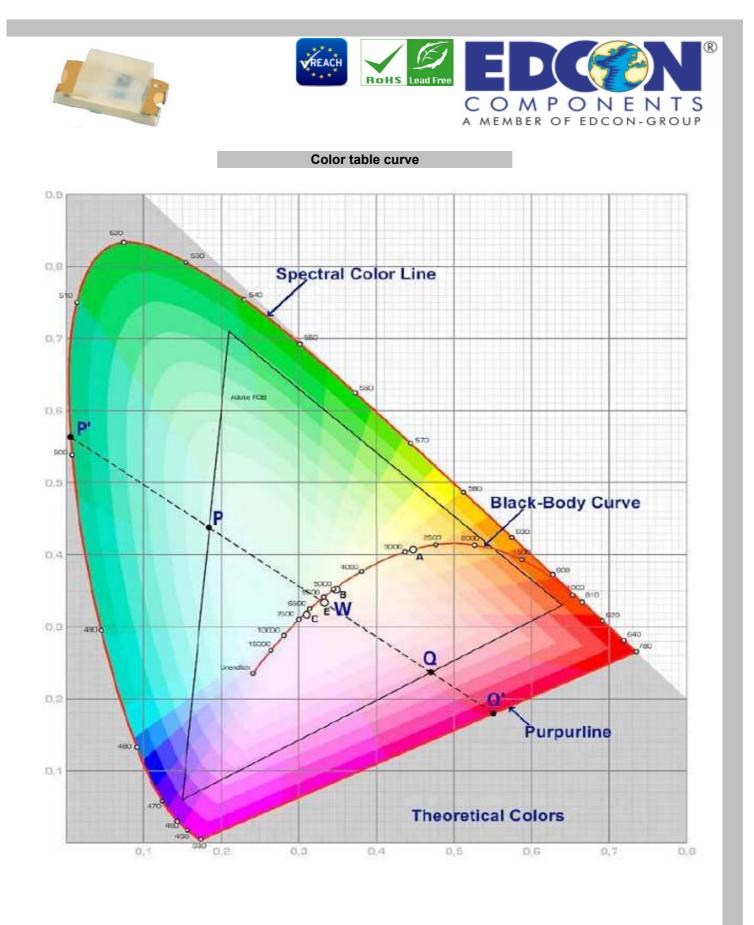
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					Part No.: <b>M11D5008</b>		1D5008			
					Custome	r:				
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