

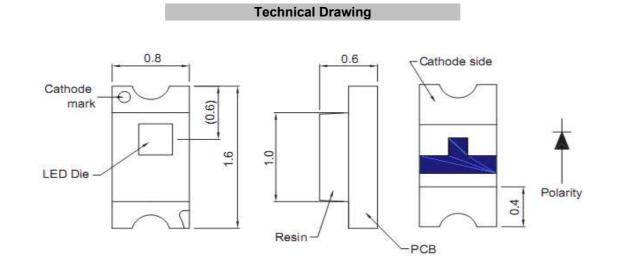


#### Applications

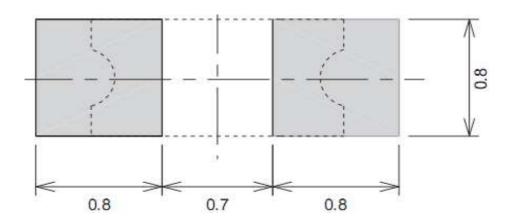
Interior automotive lighting

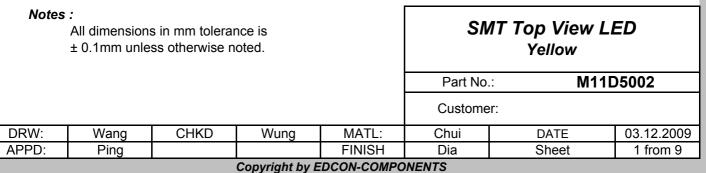
 Optical indicators
 Communication Products
 Backlighting

 Toys



**Recommended Soldering Pattern** 





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# **Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	GaAsP	Unit
Power Dissipation	PD	65	mW
DC Forward Current	I <sub>F</sub>	25	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	Yellow						
Material		GaAsP					
Forward Voltage	typ.	2.1	V <sub>F</sub>				
i orwaru voltage	max.	2.6	V <sub>F</sub>				
Wavelength	λD	590	nm				
•	λP	589	nm				
typ.	Δλ	35	nm				
Color Temperature	min.		K				
Color remperature	max.		K				
Luminous Intensity *	min.	7.2	mcd				
Lumnous intensity	typ.	9	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	140					

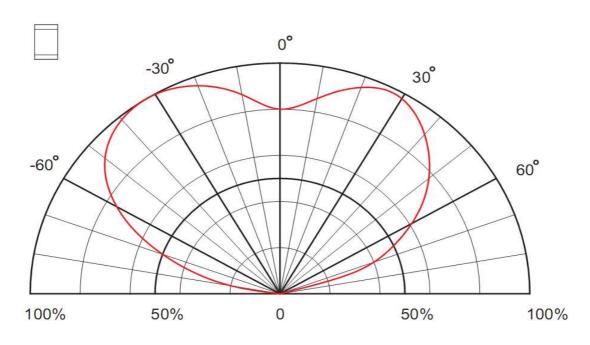
\* Per NIST standards

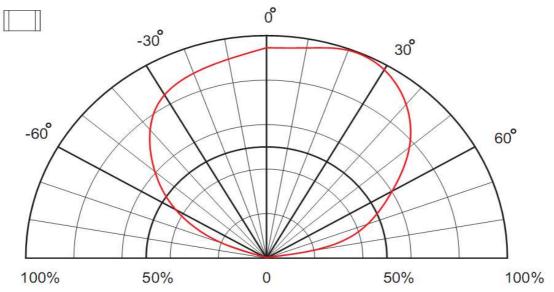
					SMT Top View LED Yellow						
					Part No.: <b>M11D500</b>		D5002				
					Custome	er:					
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009				
APPD:	Ping			FINISH	Dia	Sheet	2 from 9				
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**Directive Characteristics** 





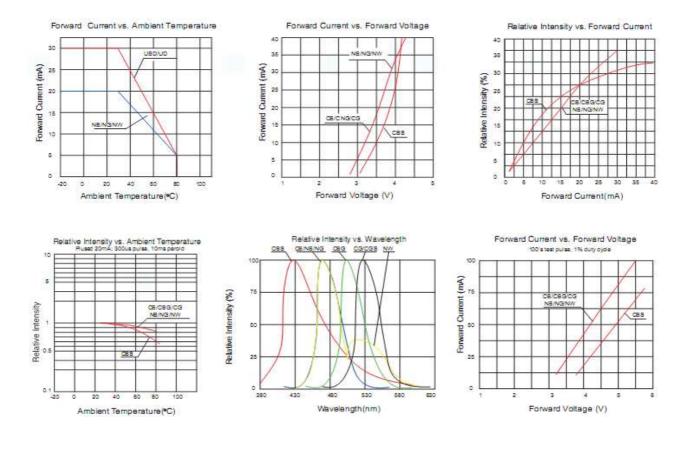
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					Part No.: <b>M11D5002</b>		1D5002		
					Custome	er:			
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009		
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Curvs



					SMT Top View LED Yellow					
					Part No.: <b>M11D5002</b>		D5002			
					Custome	er:				
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009			
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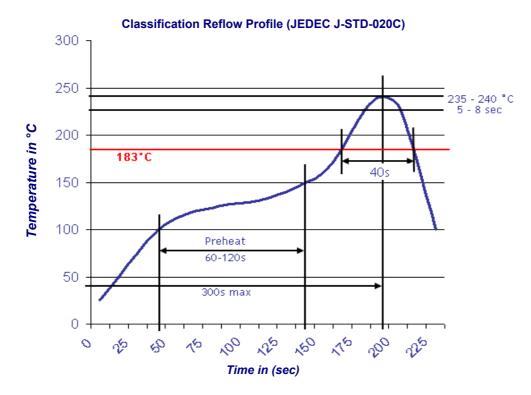
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### **Solder Condition**

# Lead Free Solder



		SMT Top View LED Yellow				
		Part No.: M11D		05002		
		Custome	er:			
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Wang

Ping

CHKD

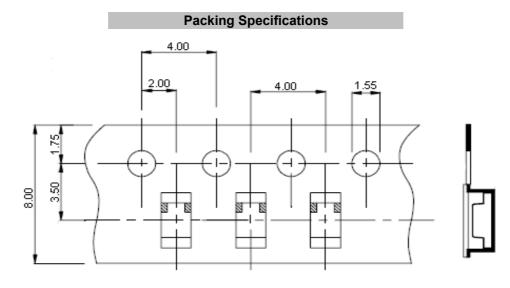
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APPD:

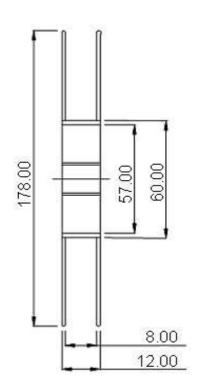
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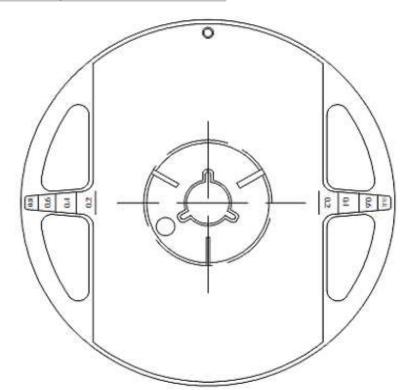






**Reel Specifications** 





					SMT Top View LED Yellow		
					Part No.: <b>M11D5002</b>		05002
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
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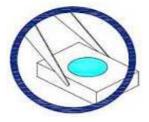




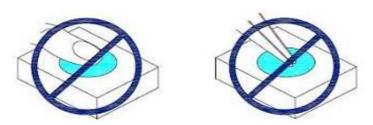
## Handling Precautions

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.



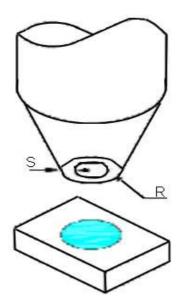
					SMT Top View LED Yellow		
					Part No.	rt No.: <b>M11D5002</b>	
					Custome	r:	
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as 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 Yellow				
		Part No.	<b>M11D5002</b>			
		Custome	er:			
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	FINISH	Dia	Sheet	8 from 9		

Wang

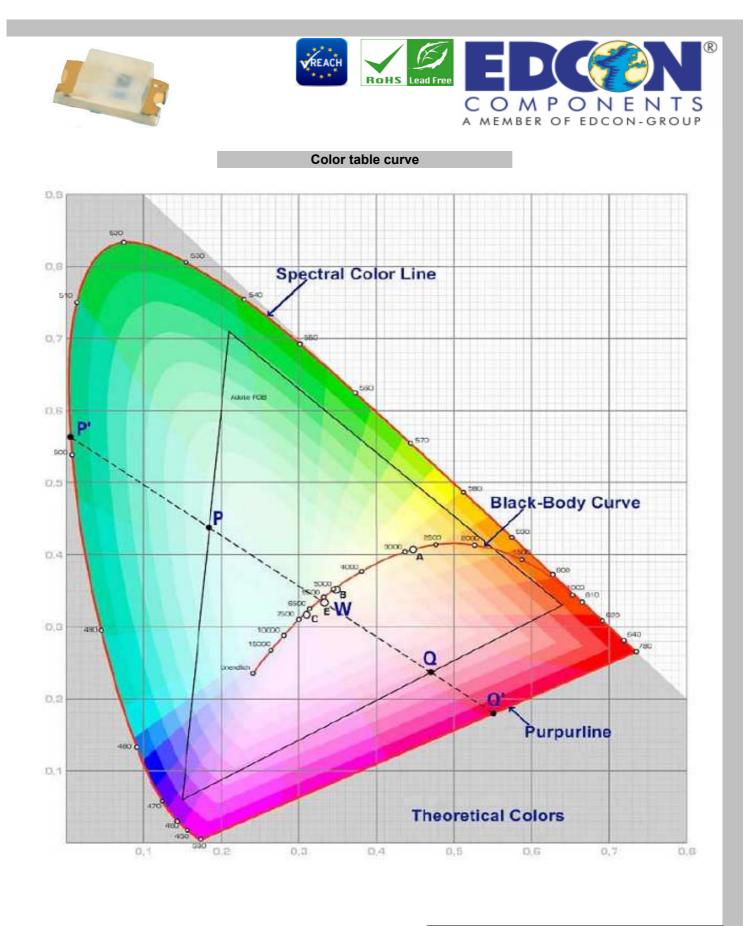
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DRW:

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					Part No.: <b>M11D5002</b>		1D5002			
					Customer					
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