



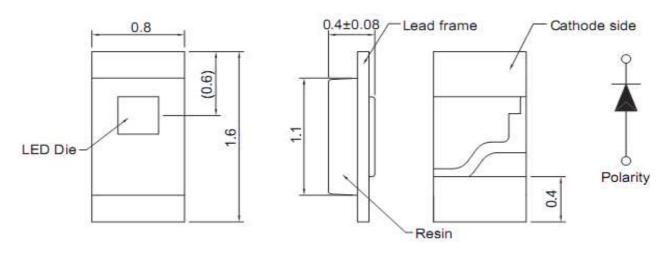
Applications

Interior automotive lighting

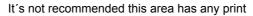
 Optical indicators
 Communication Products
 Backlighting

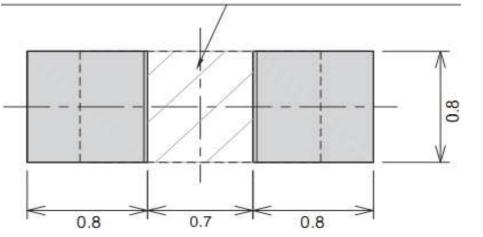
 Toys

Technical Drawing



Recommended Soldering Pattern





	: All dimensions ± 0.1mm unles		SMT Top View LED White				
					Part No.	: M110	08007
			Custome	er:			
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	PD	117	mW
DC Forward Current	I _F	30	mA
Plused Forward Current	I _{FP} *	120	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

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color	White					
Material	InGaN					
Forward Voltage	typ.	3.3	V _F			
i orwaru voltage	max.	3.9	V _F			
Wavelength	λD	x = 0.29 y = 0.31	nm			
•	λP		nm			
typ.	Δλ		nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	140	mcd			
Luminous intensity	typ.	250	mcd			
Reverse Current	max.		μA			
Viewing Angle	2Θ1/2	140				

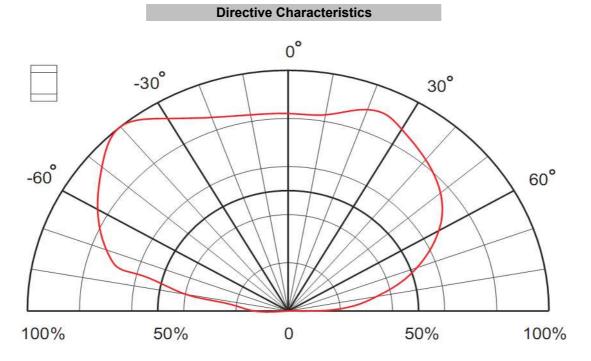
* Per NIST standards

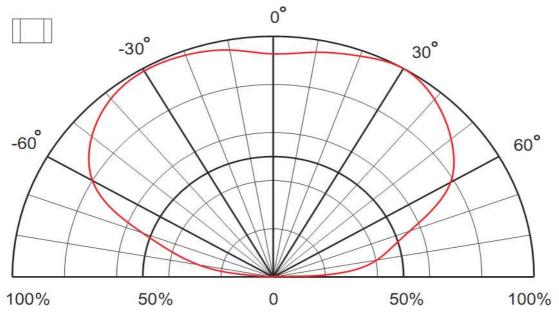
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					Part No	.: M11I	D8007	
					Custome	er:		
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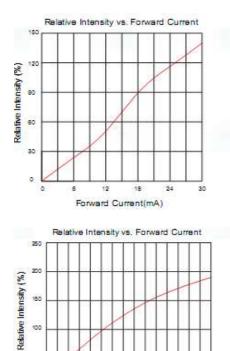
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				-	Part No.:	M1	1D8007
					Customer	:	
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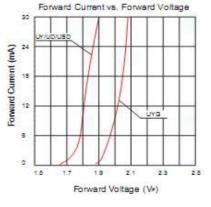




Curvs



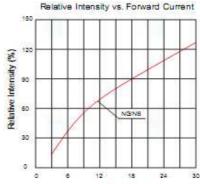
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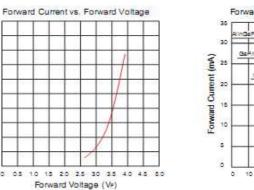
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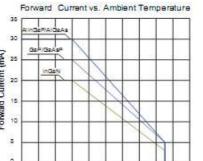
Forward Current (mA)

Forward Current (mA)

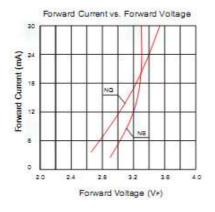


Forward Current(mA)





50 60 Ambient Temperature (°C)



					SMT Top View LED White		
					Part No.: M11D8007		
					Custome	er:	
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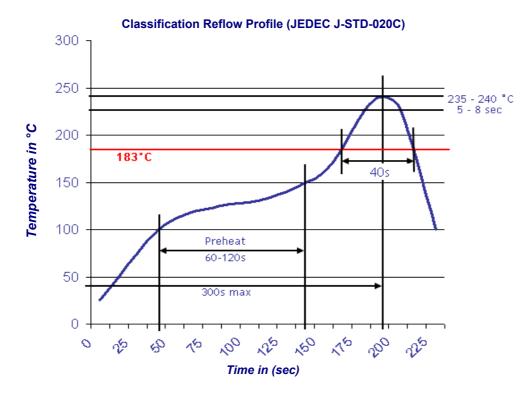
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Solder Condition

Lead Free Solder



		SN	SMT Top View LED White			
		Part No.: M11D800		11D8007		
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Wang

Ping

CHKD

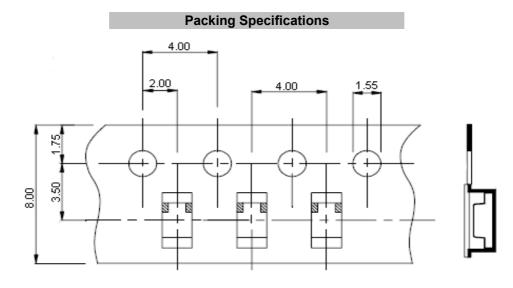
DRW:

APPD:

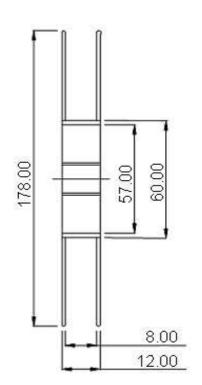
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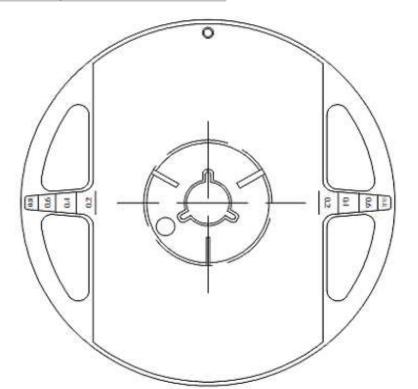






Reel Specifications





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					Part No.: M11D8007		
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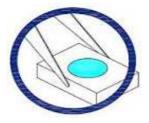




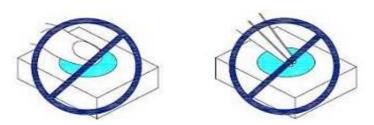
Handling Precautions

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.



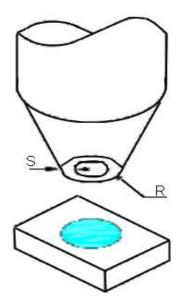
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					Part No.: M11D8007		D8007
					Custome	er:	
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle 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 White					
	Part No	.: M110	08007			
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Wang

Ping

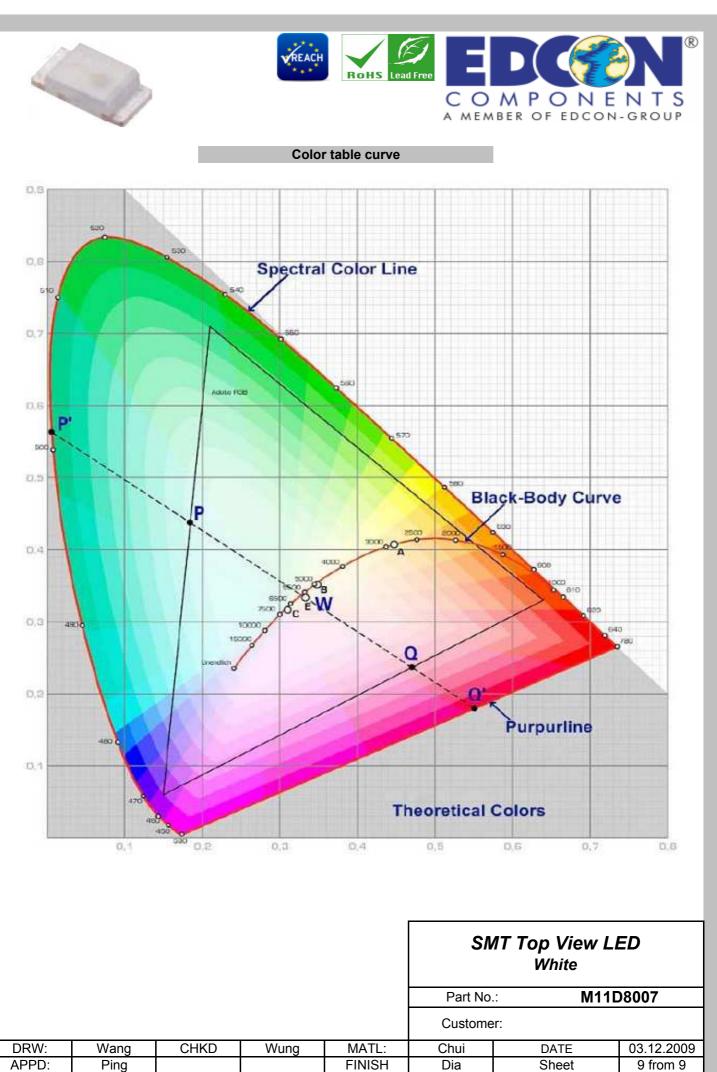
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