



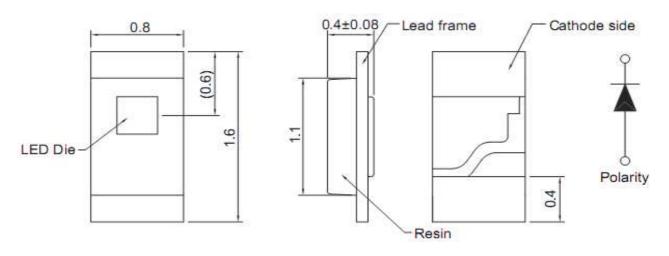
Applications

Interior automotive lighting

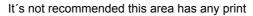
 Optical indicators
 Communication Products
 Backlighting

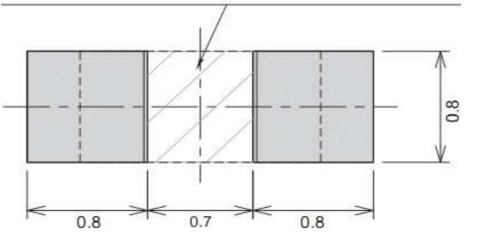
 Toys

Technical Drawing



Recommended Soldering Pattern





	: All dimensions ± 0.1mm unles		SMT Top View LED Green				
					Part No.	.: M110	D8009
			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 =5mA Ta=25°C

Ermitting Color	Green		
Material		InGaN	
Forward Voltage	typ.	2.8	V _F
Forward voltage	max.	3.15	V _F
Wayolongth	λD	529	nm
Wavelength	λP	522	nm
typ.	Δλ	40	nm
Color Temperature	min.		K
	max.		K
Luminous Intensity *	min.	25	mcd
Editifious intensity	typ.	50	mcd
Reverse Current	max.		μA
Viewing Angle	2Θ1/2	140	

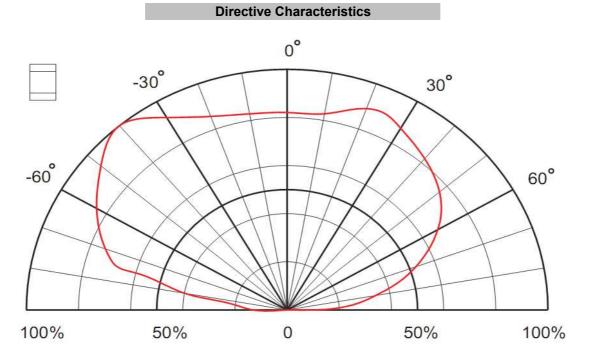
* Per NIST standards

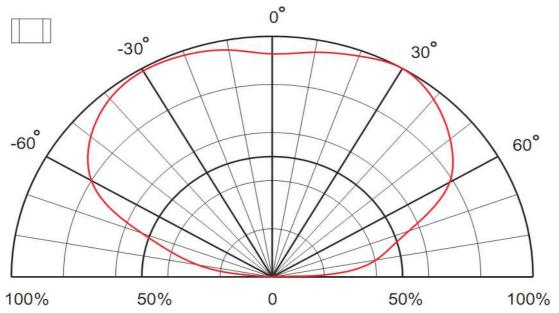
					SMT Top View LED Green				
					Part No.: M11D8009				
					Custome	er:			
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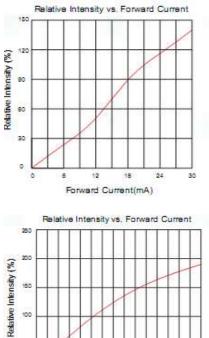
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					Part No.	.: M1 1	D8009	
					Custome	er:		
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Curvs



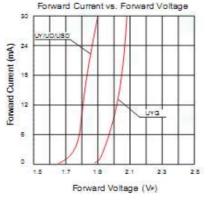
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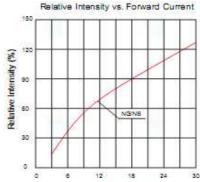
100

50

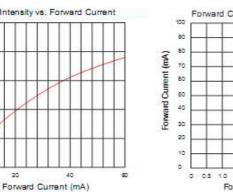
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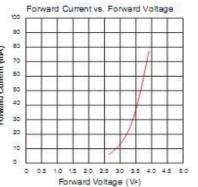
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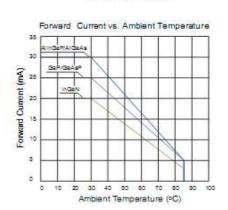


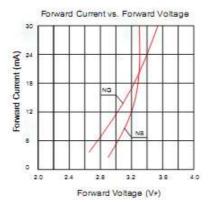


Forward Current(mA)









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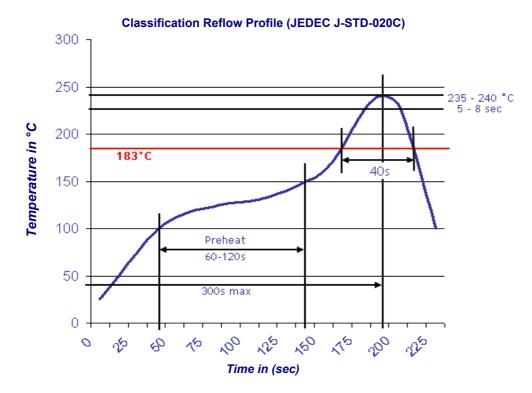
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Solder Condition

Lead Free Solder



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Wang

Ping

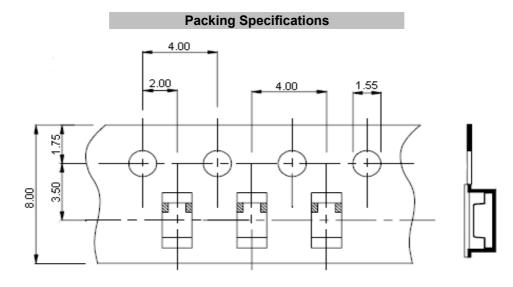
CHKD

DRW:

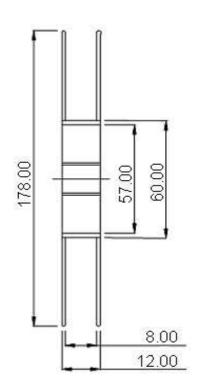
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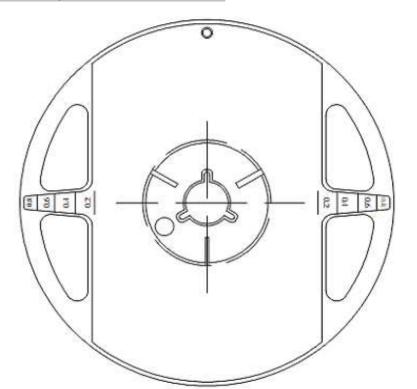






Reel Specifications





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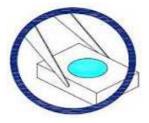




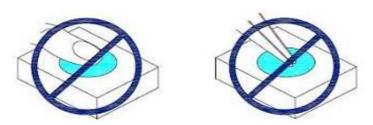
Handling Precautions

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.



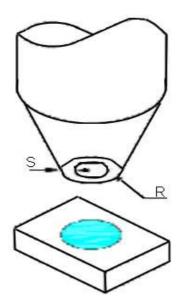
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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

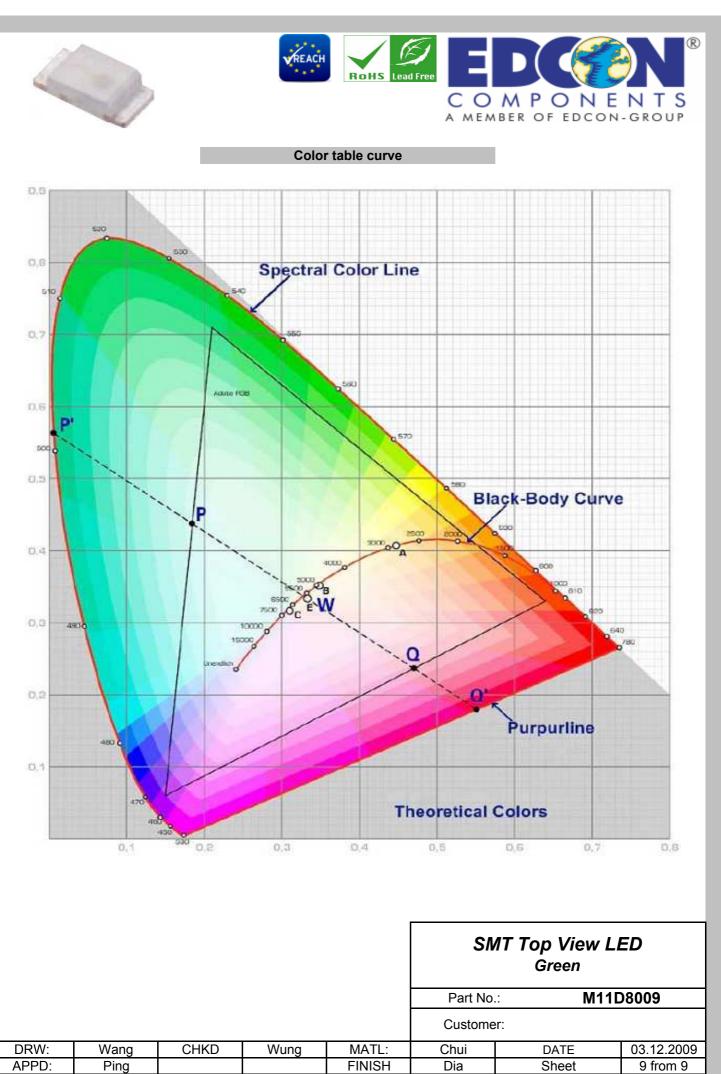
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