

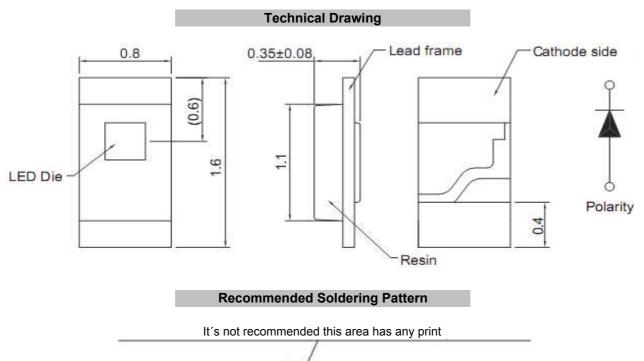


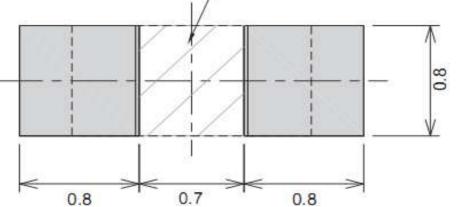
Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys





Part No.: M1	SMT Top View LED Green			
	1D9004			
Customer:				
DRW: Wang CHKD Wung MATL: Chui DATE	03.12.2009			
APPD: Ping FINISH Dia Sheet	1 from 9			

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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		Green InGaN					
Material							
Forward Voltage	typ.	3.3	V _F				
i orwaru voltage	max.	3.9	V _F				
Wavelength	λD	527	nm				
•	λP	520	nm				
typ.	Δλ	40	nm				
Color Temperature	min.		K				
	max.		K				
Luminous Intensity *	min.	100	mcd				
Lumnous intensity	typ.	150	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	140					

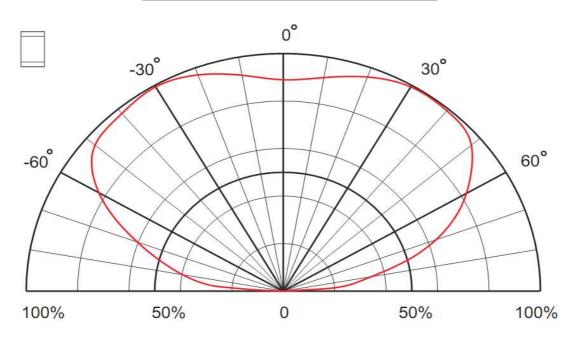
* Per NIST standards

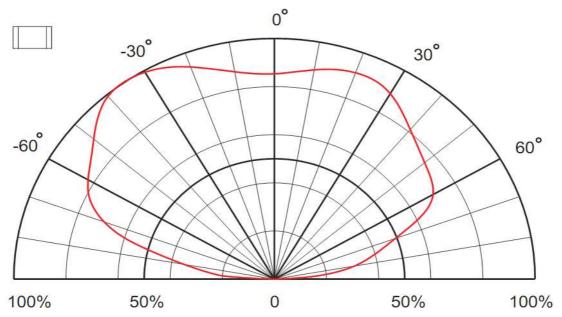
					SMT Top View LED Green		
					Part No.: M11D9004		09004
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
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Directive Characteristics





					SMT Top View LED Green		
					Part No.: M11D9004		D9004
					Custome	er:	
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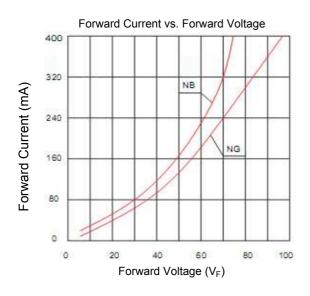
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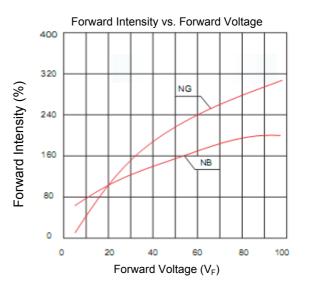
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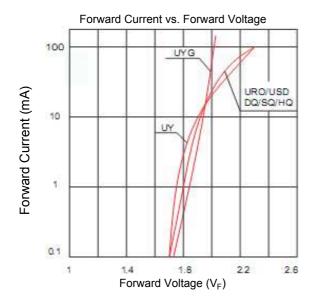


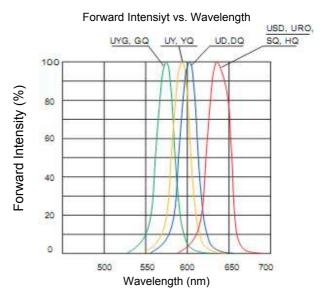


Curvs









					SMT Top View LED Green					
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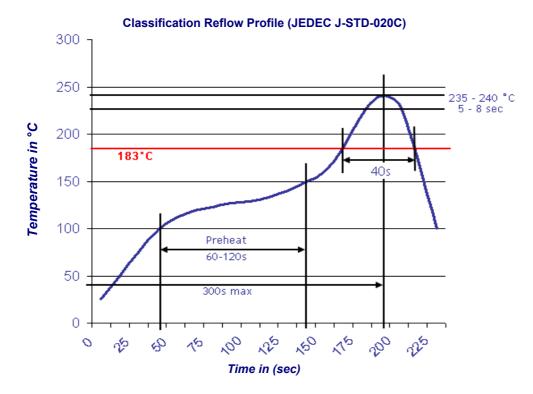
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Solder Condition

Lead Free Solder



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		Part No.:		111D9004		
		Custome	er:			
Wung	MATL:	Chui	DATE	03.12.2009		
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Wang

Ping

CHKD

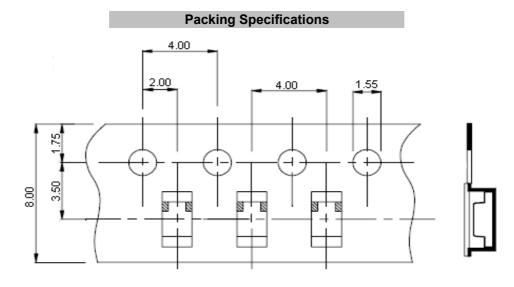
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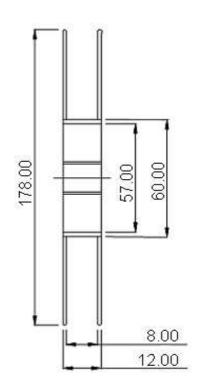
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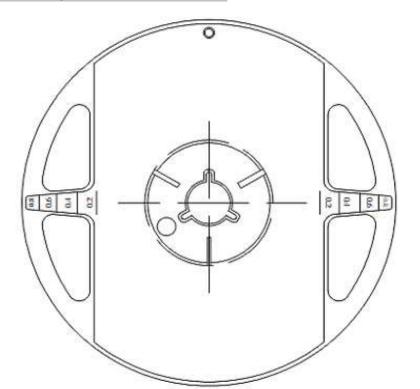






Reel Specifications





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					Custome	er:	
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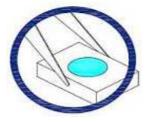




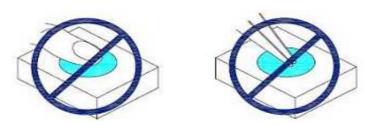
Handling Precautions

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.



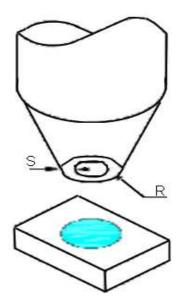
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					Part No.: M11D9004		D9004
					Custome	er:	
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle 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.



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	Part No.	.: M110	D9004			
	Custome	er:				
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Wang

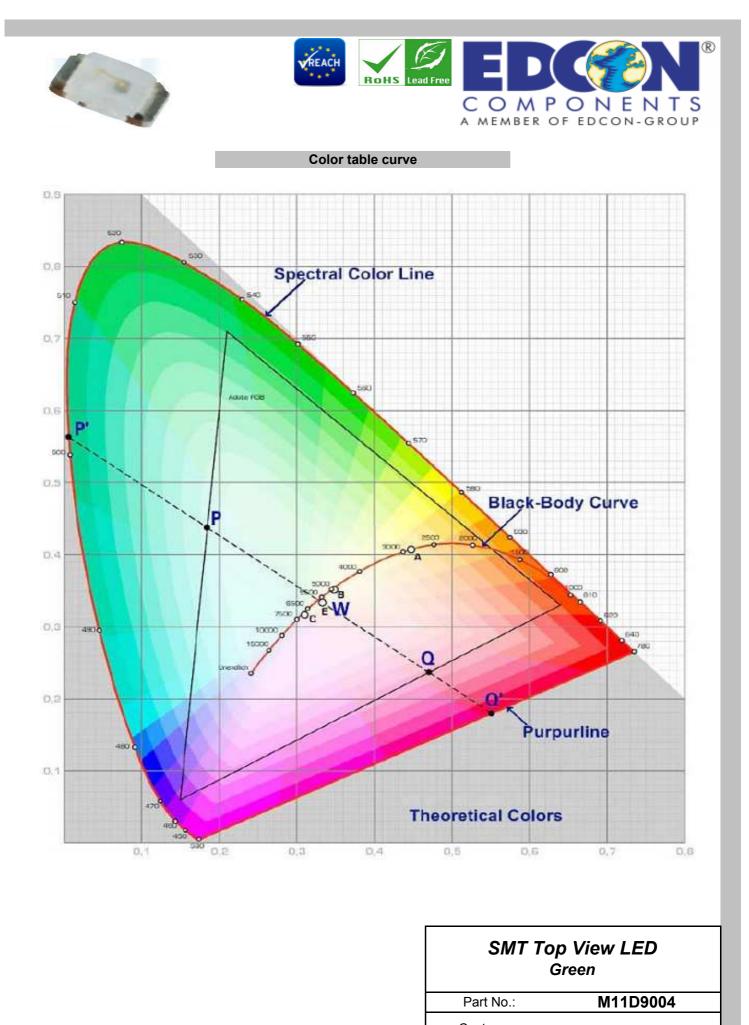
Ping

DRW:

APPD:

CHKD

Wung



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