

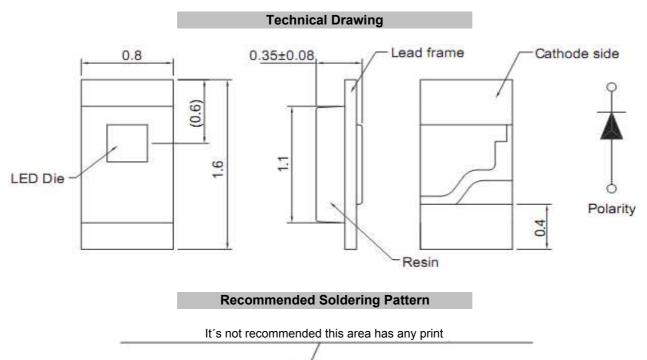


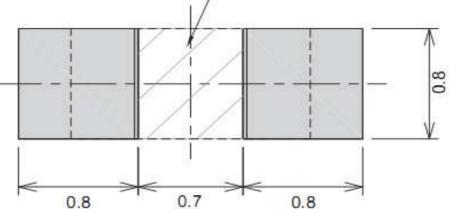
Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys





Notes	: All dimensions ± 0.1mm unles		SN	IT Top View L Blue	ED		
					Part No	.: M11	D9012
					Custome	er:	
DRW:	Wang	CHKD	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		Blue					
Material	InGaN						
Forward Voltage	typ.	2.7	V _F				
r orward voltage	max.	2.95	V _F				
Wavelength	λD	470	nm				
-	λP	468	nm				
typ.	Δλ	40	nm				
Color Temperature	min.		K				
Color remperature	max.		K				
Luminous Intensity *	min.	7	mcd				
Lumnous intensity	typ.	9	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	140					

* Per NIST standards

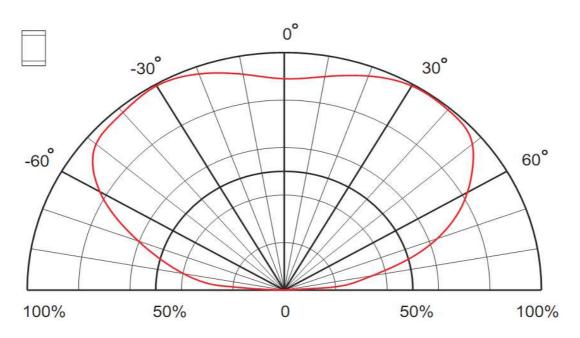
				SN	IT Top View Li Blue	ED	
					Part No.	.: M110	09012
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
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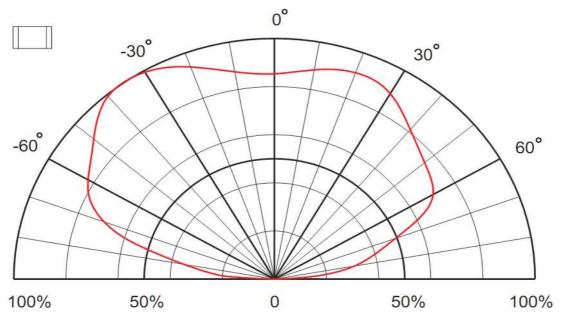
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Directive Characteristics





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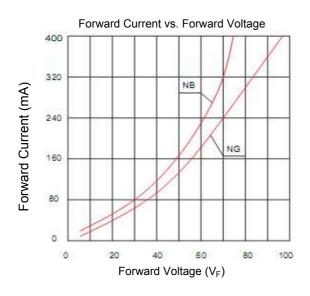
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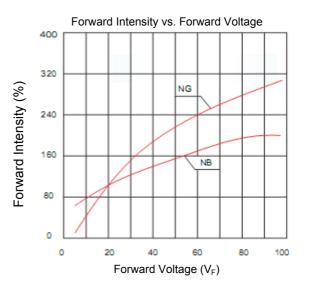
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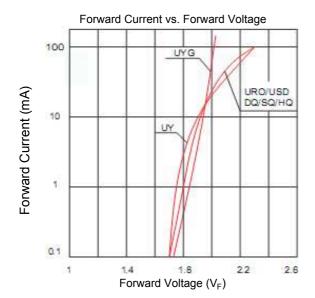


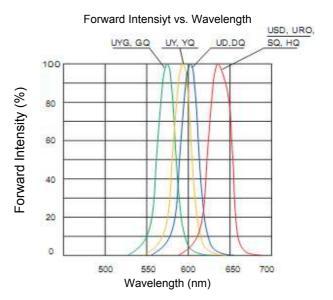


Curvs









					SMT Top View LED Blue		
					Part No.: M11D9012		D9012
					Custome	er:	
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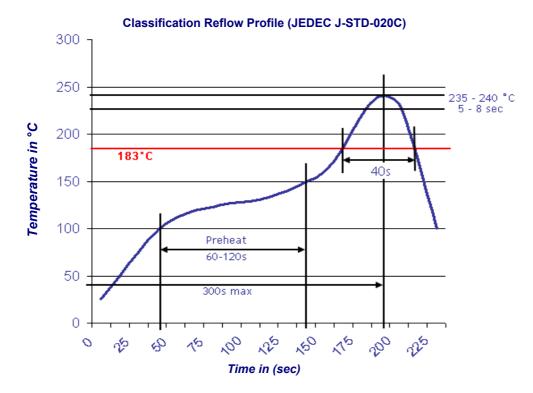
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Solder Condition

Lead Free Solder



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Wang

Ping

CHKD

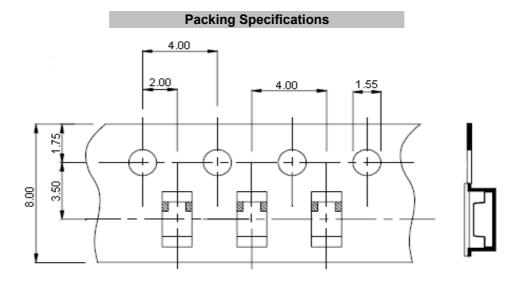
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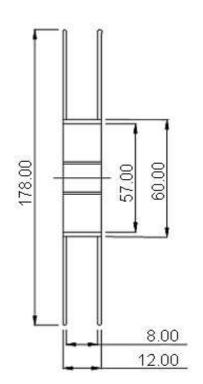
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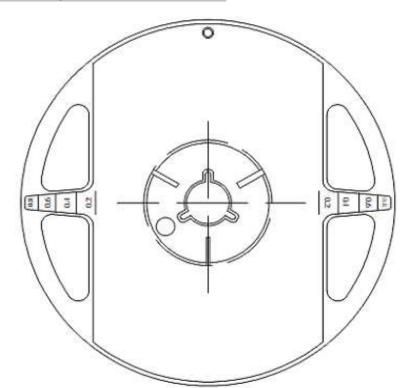






Reel Specifications





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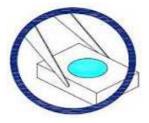




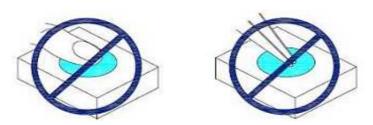
Handling Precautions

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.



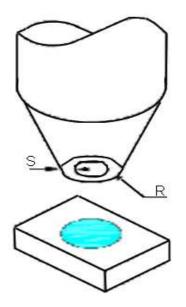
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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



	SMT Top View LED Blue						
	Part No.	.: M110	D9012				
	Custome	er:					
MATL:	Chui DATE 03.12.2009						
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Wang

Ping

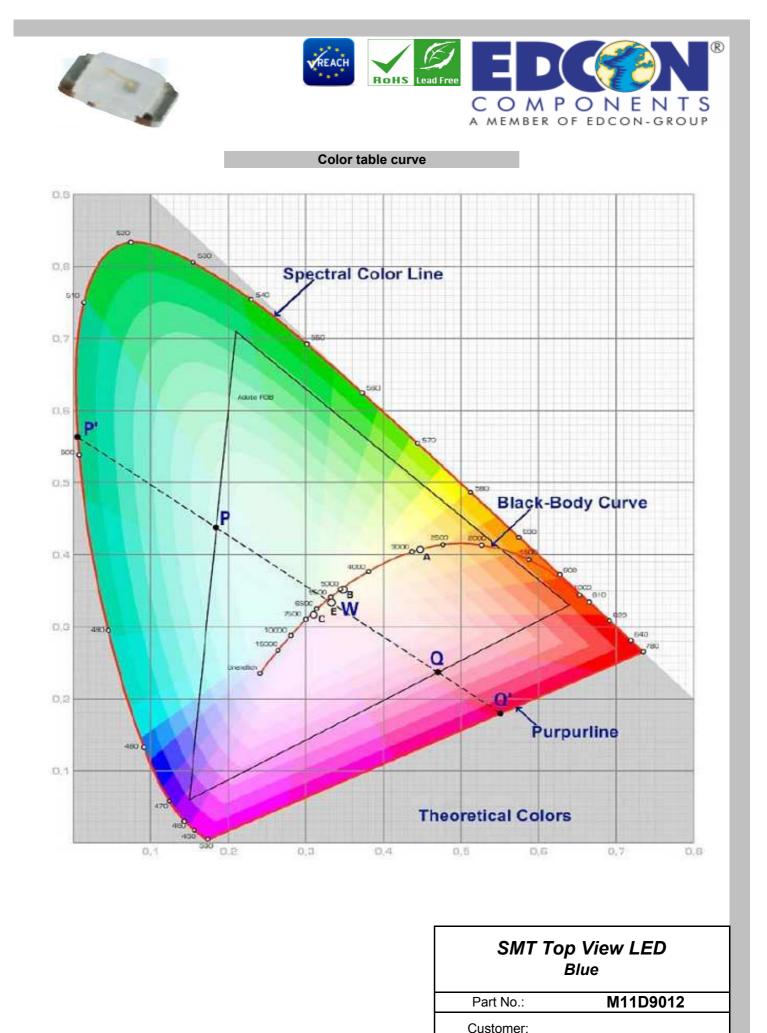
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Wung



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