



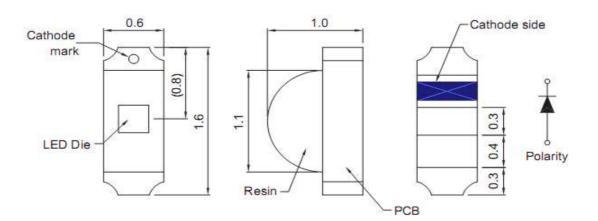
Applications

Interior automotive lighting

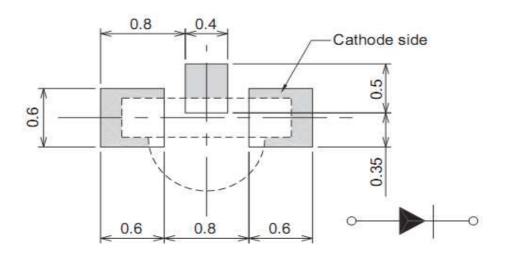
 Optical indicators
 Communication Products
 Backlighting

 Toys

Technical Drawing



Recommended Soldering Pattern



Notes	: All dimensions ± 0.1mm unles		SM	IT Side View L Blue	ED		
			Part No	.: M11I	_4010		
					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	80	mW
DC Forward Current	I _F	20	mA
Plused Forward Current	I _{FP} *	80	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

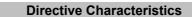
Ermitting Color		Blue				
Material	InGaN					
Forward Voltage	typ.	3.3	V _F			
i orwaru voltage	max.	3.9	V _F			
Wavelength	λD	470	nm			
	λP	468	nm			
typ.	Δλ	40	nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	36	mcd			
Luminous intensity	typ.	60	mcd			
Reverse Current	max.		μA			
Viewing Angle	201/2	x = 140 y = 120				

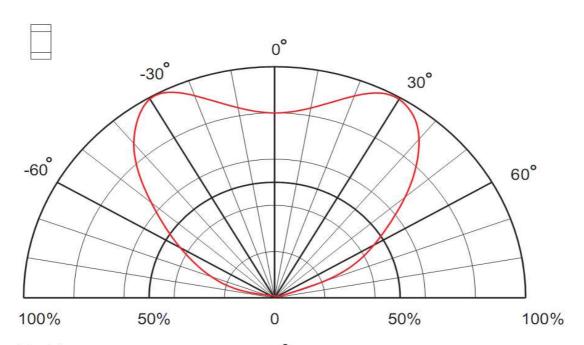
* Per NIST standards

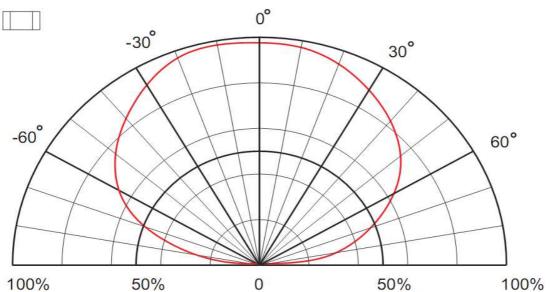
					SM	IT Side View L Blue	ED
					Part No.: M11L4010		
					Custome	er:	
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					SMT Side View LED Blue		
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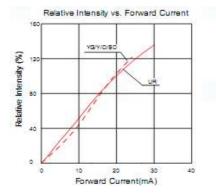
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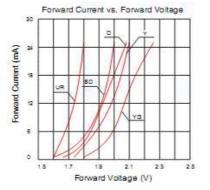
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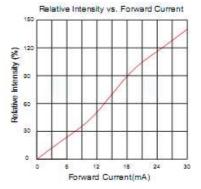


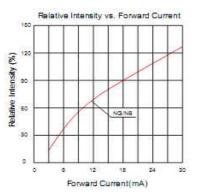


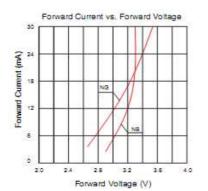
Curvs

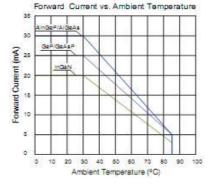


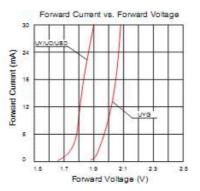












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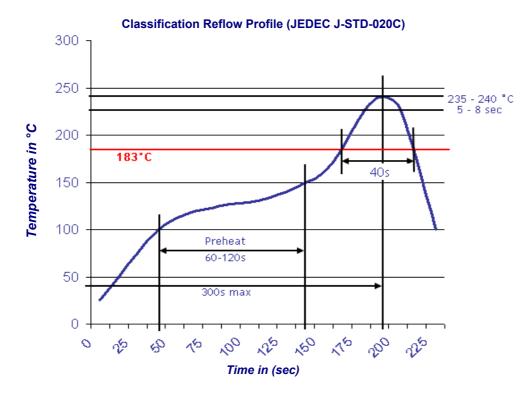
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Solder Condition

Lead Free Solder



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Wang

Ping

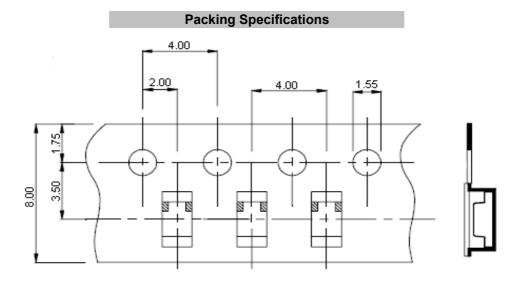
CHKD

DRW:

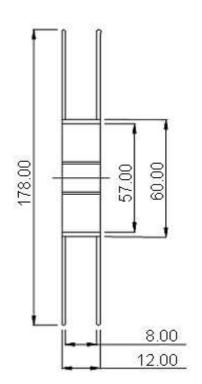
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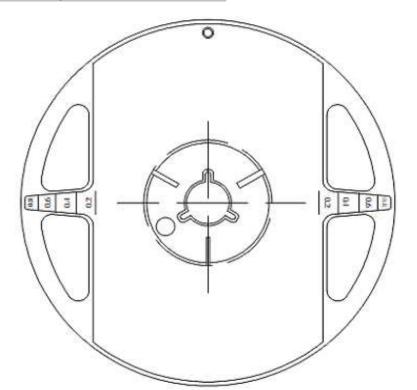






Reel Specifications





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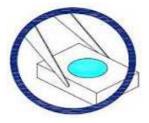




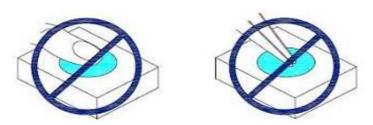
Handling Precautions

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.



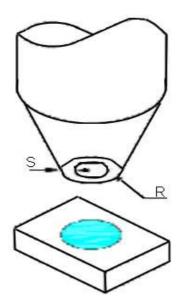
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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

Ping

CHKD

DRW:

APPD:

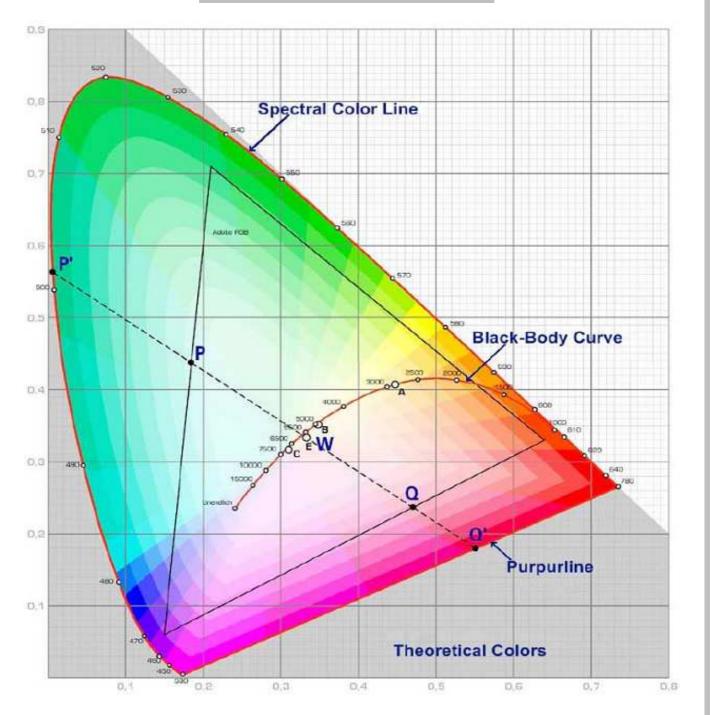
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Wung





Color table curve



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