



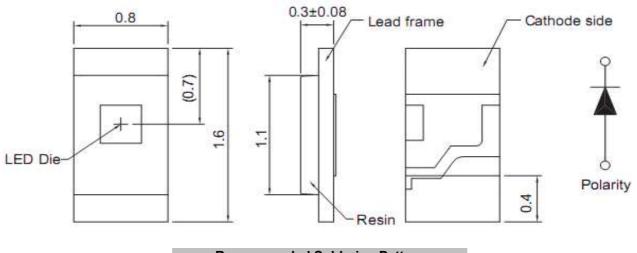
Applications

Interior automotive lighting

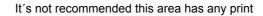
 Optical indicators
 Communication Products
 Backlighting

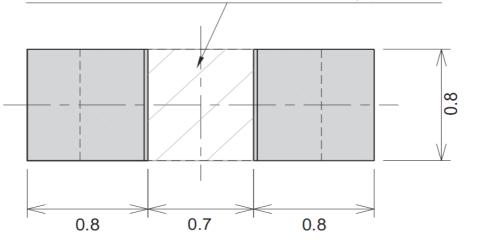
 Toys

Technical Drawing



Recommended Soldering Pattern





	All dimensions	s in mm tolerar ss otherwise no	SN	IT Top View Ll Orange	ED		
					Part No.	.: M11E	1002
				Custome	er:		
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	AllnGaP	Unit
Power Dissipation	PD	72	mW
DC Forward Current	I _F	30	mA
Plused Forward Current	I _{FP} *	100	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

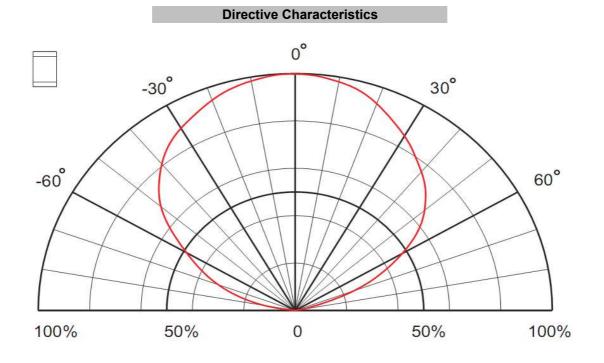
Ermitting Color	Orange							
Material		AllnGaP						
Forward Voltage	typ.	1.8	V _F					
r orward voltage	max.	2.0	V _F					
Wavelength	λD	622	nm					
•	λP	636	nm					
typ.	Δλ	17	nm					
Color Temperature	min.		K					
	max.		K					
Luminous Intensity *	min.	18	mcd					
Luminous intensity	typ.	28	mcd					
Reverse Current	max.		μA					
Viewing Angle	2Θ1/2	x = 140 y = 120						

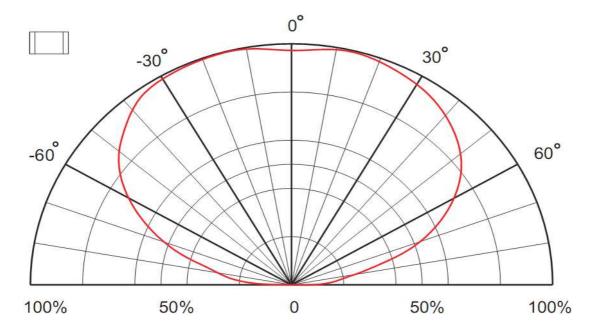
* Per NIST standards

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					Custome	er:	
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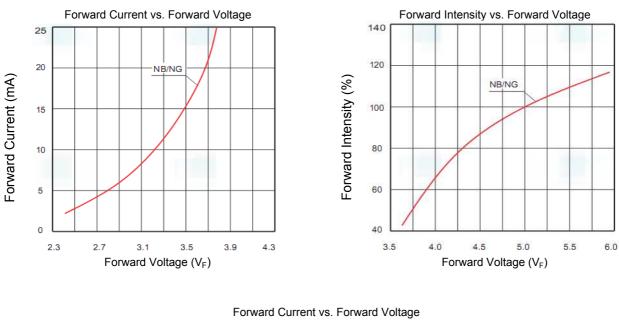
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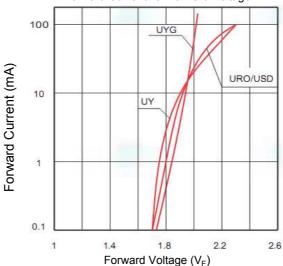
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Curvs





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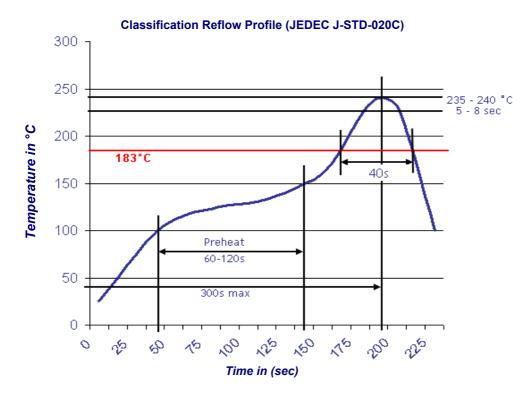
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Solder Condition

Lead Free Solder



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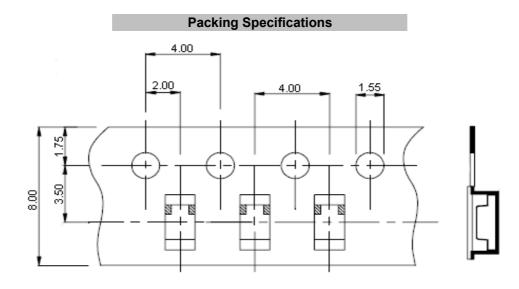
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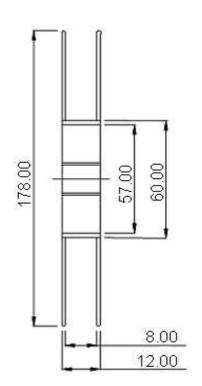
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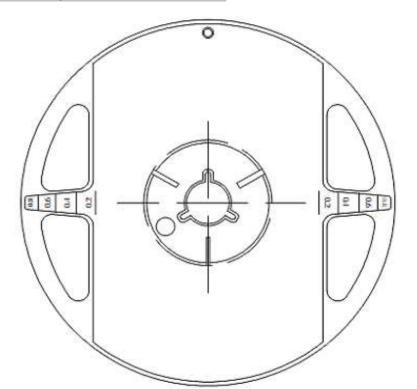






Reel Specifications





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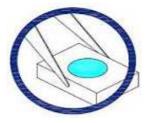




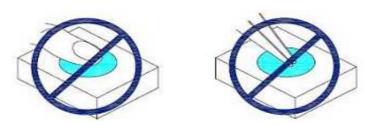
Handling Precautions

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.

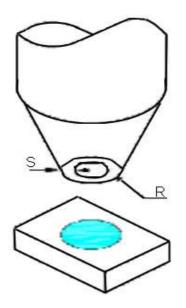


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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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



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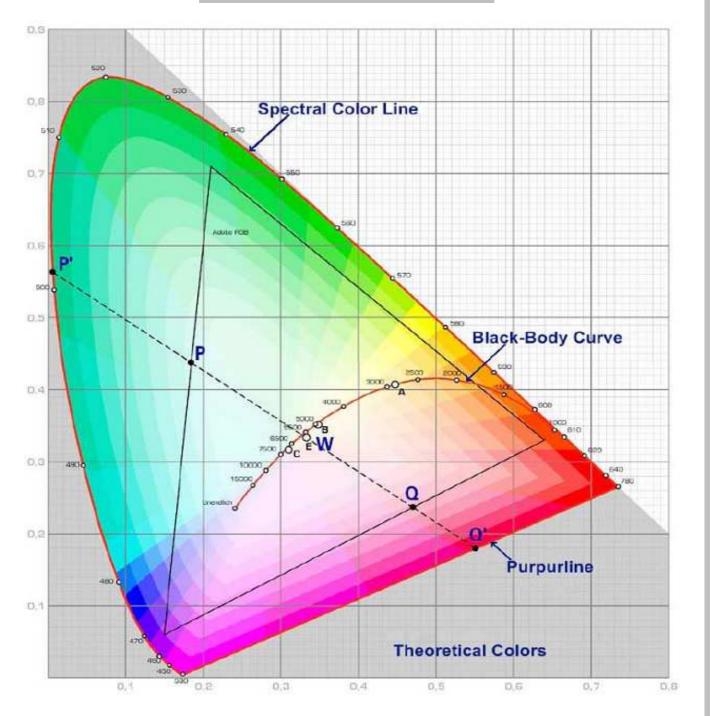
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Color table curve



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