

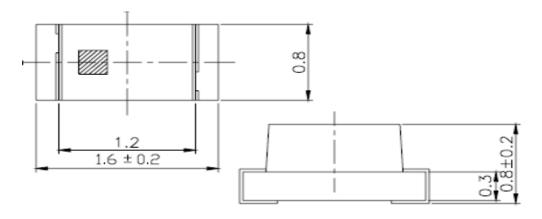


Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern

<i>Notes :</i> All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.					SA	IT Top View Li White	ED
					Part No.: M11D4019		
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	14.06.2010
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	PD		mW
DC Forward Current	I _F		mA
Plused Forward Current	I _{FP} *		mA
Reverse Voltage	V _R		V
Operating Temperature	T _{OP}		°C
Storage Temperature	T _{ST}		°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

Ta=25°C

Ermitting Color	White						
Material		InGaN					
Forward Voltage	typ.	2.9	V _F				
r orward voltage	max.	3.5	V _F				
Wavelength	λD		nm				
-	λP		nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
Color remperature	max.		K				
Luminous Intensity *	min.	350	mcd				
Lummous intensity	typ.	560	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	120					

* Per NIST standards

					SMT Top View LED White				
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Directive Characteristics

				SMT Top View LED White					
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Curvs

				IT Top View L White	ED
			Part No.: M11D4019		D4019
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Dong Ping

DRW:

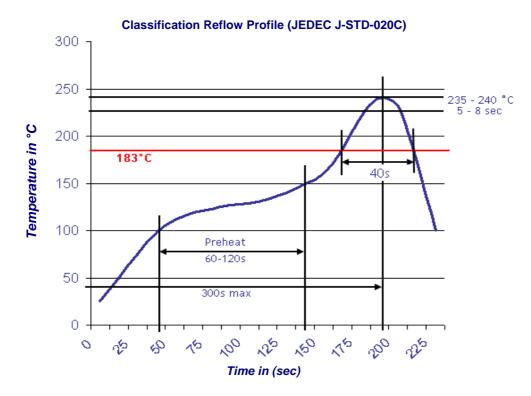
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Solder Condition

Lead Free Solder



		SMT Top View LED White				
		Part No.	.: M1	M11D4019		
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Dong

Ping

CHKD

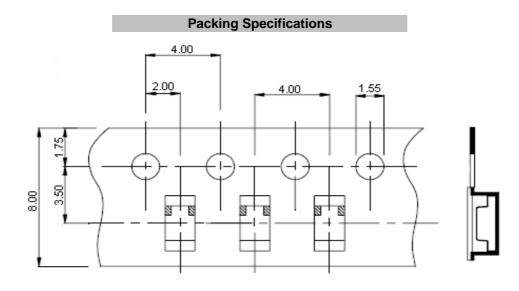
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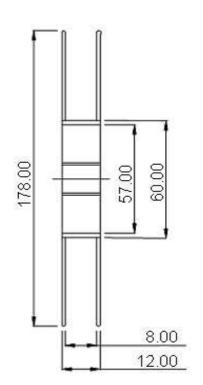
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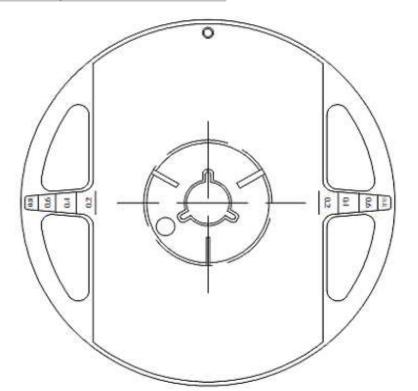






Reel Specifications





					SMT Top View LED White		
					Part No.: M11D4019		04019
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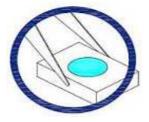




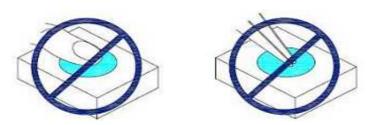
Handling Precautions

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.

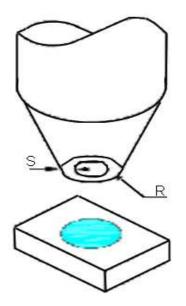


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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching 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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	Part No.	.: M11C	04019		
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Dong

Ping

CHKD

DRW:

APPD:

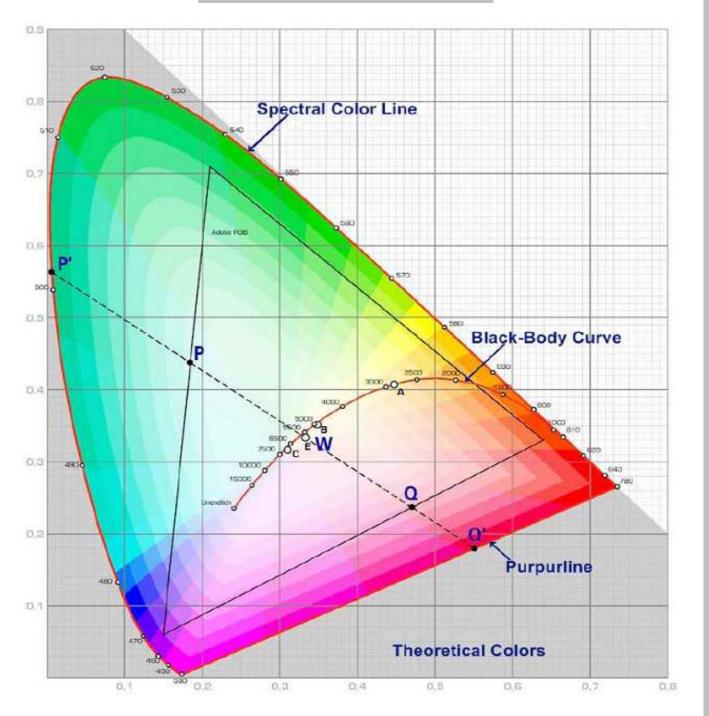
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Chang





Color table curve



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