

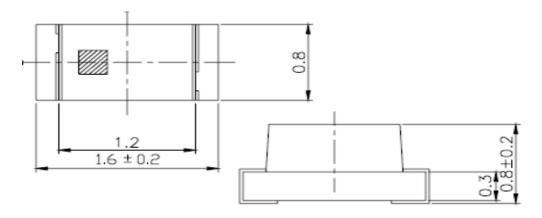


Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern

Notes	All dimensions	s in mm tolerar ss otherwise n	SN	IT Top View Ll Green	ED		
					Part No.: M11D4013		
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	14.06.2010
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	AlGalnP	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		Green					
Material		AlGaInP					
Forward Voltage	typ.	1.9	V _F				
r orward voltage	max.	2.4	V _F				
Wavelength	λD	565	nm				
-	λP	575	nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
Color remperature	max.		K				
Luminous Intensity *	min.	40	mcd				
Lummous intensity	typ.	80	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	120					

* Per NIST standards

					SMT Top View LED Green			
					Part No	t No.: M11D4013		
					Custome	er:		
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Directive Characteristics

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Dong Ping С

DRW:

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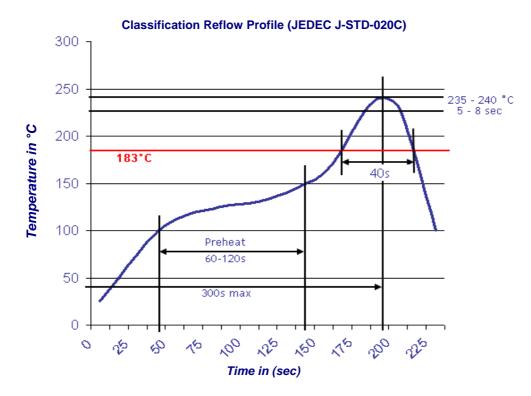
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Solder Condition

Lead Free Solder



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Dong

Ping

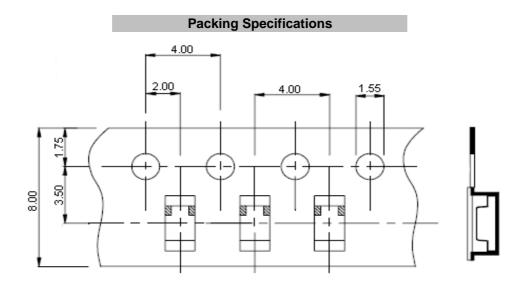
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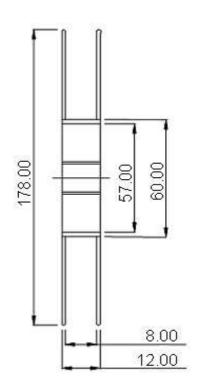
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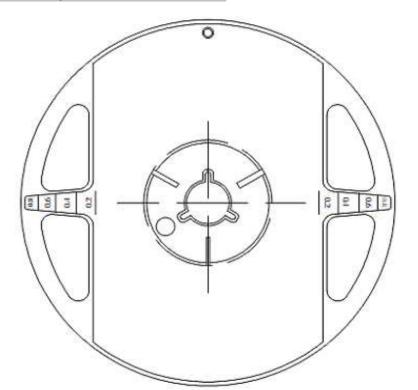






Reel Specifications





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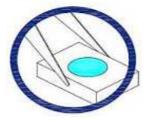




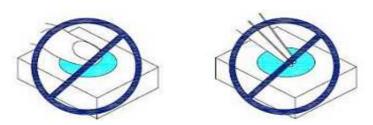
Handling Precautions

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.



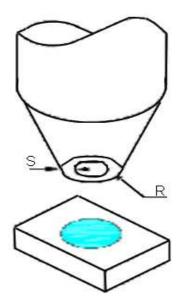
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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

Ping

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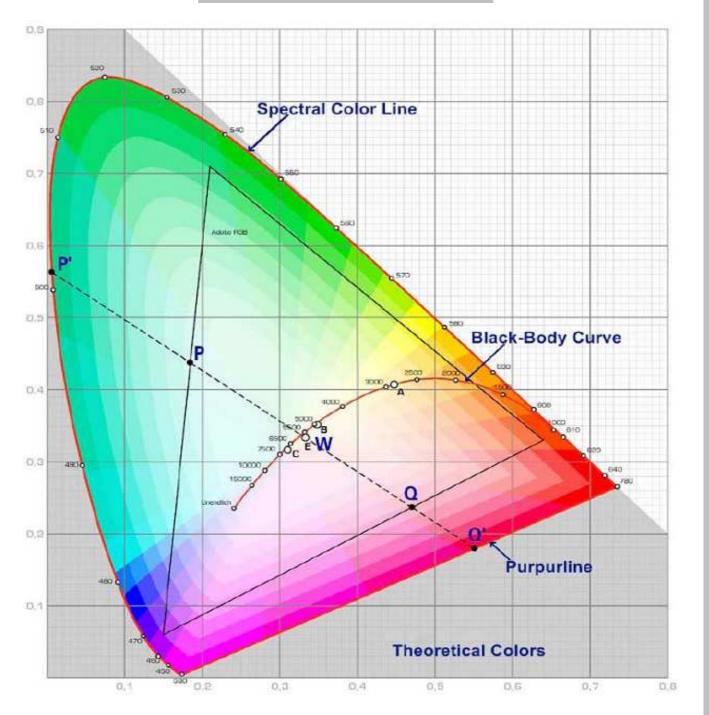
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Chang





Color table curve



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