

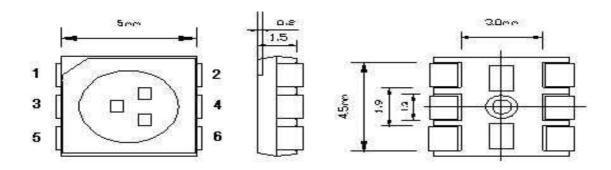


Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern

Notes	: All dimensions ± 0.1mm unle				PLCC6 Warm White			
					Part No.	.: M11	A5020	
					Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	22.06.2010	
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Absolute Maximum Ratings

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

I_F=20mA

Ermitting Color		Warm White			
Material		InGaN			
Forward Voltage	typ.	3.0	V _F		
Forward voltage	max.	3.6	V _F		
Wavelength	λD		nm		
•	λP		nm		
typ.	Δλ		nm		
Color Temperature	min.	3000	K		
Color remperature	max.	4000	K		
Luminous Intensity *	min.	3500	mcd		
Lumnous mensity	typ.	4500	mcd		
Reverse Current	max.		μA		
Viewing Angle	2Θ1/2	120			

* Per NIST standards

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Directive Characteristics

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Curvs

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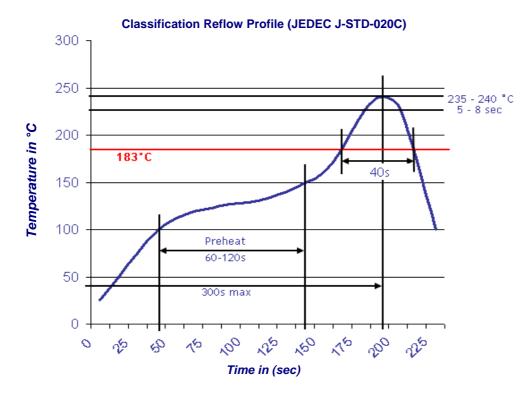
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Solder Condition

Lead Free Solder



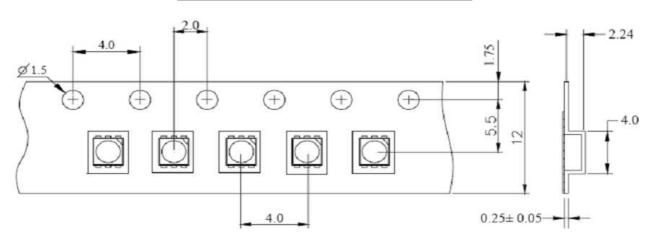
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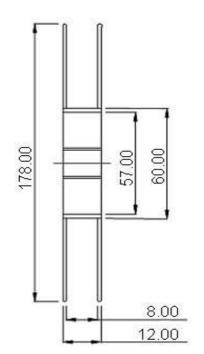


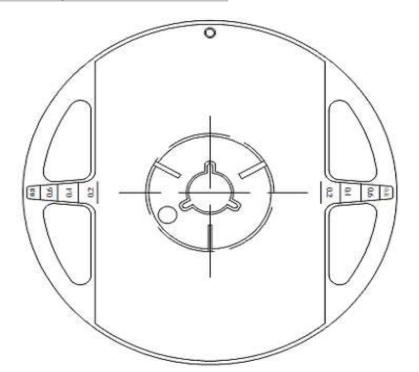


Packing Specifications



Reel Specifications





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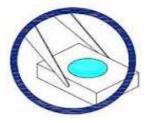




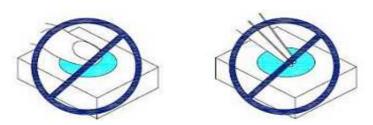
Handling Precautions

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.



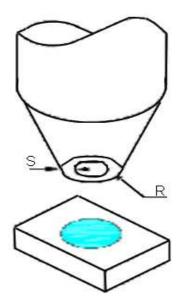
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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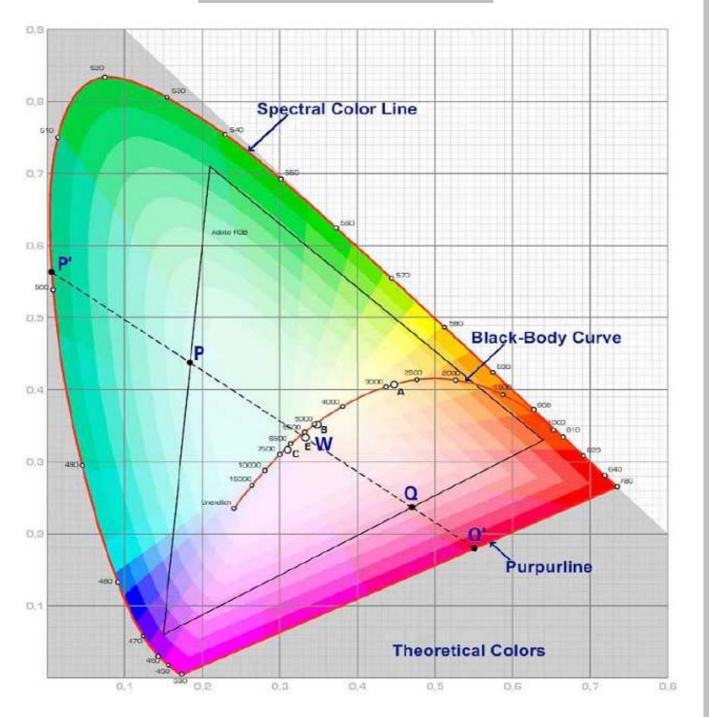
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Color table curve



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