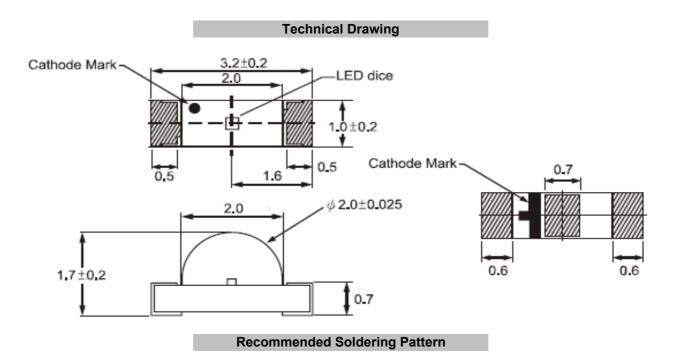




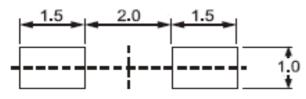
#### Applications

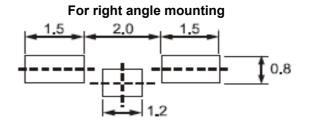
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys



For upright mounting





<i>Notes :</i> All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.					SN	IT Top View L Red	ED
				Part No.	.: M11I	K5001	
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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# Absolute Maximum Ratings

Ta=25°C

Item	Symbol	GaAlAs / GaAs	Unit
Power Dissipation	PD		mW
DC Forward Current	I <sub>F</sub>	30	mA
Plused Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-25 to 80	°C
Storage Temperature	T <sub>ST</sub>	-30 to 85	°C

\* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color		Red				
Material	GaAlAs / GaAs					
Forward Voltage	typ.	1.7	V <sub>F</sub>			
r orward voltage	max.	2.6	V <sub>F</sub>			
Wavelength	λD	643	nm			
-	λP	660	nm			
typ.	Δλ		nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	8.2	mcd			
Lummous intensity	typ.	20	mcd			
Reverse Current	max.		μA			
Viewing Angle	201/2	105				

\* Per NIST standards

					SMT Top View LED Red				
					Part No.: <b>M11K5001</b>				
					Custome	er:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009		
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				SMT Top View LED Red		
				Part No.: <b>M11K5001</b>		(5001
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				SMT Top View LED Red		
				Part No.: <b>M11K5001</b>		(5001
				Custome	er:	
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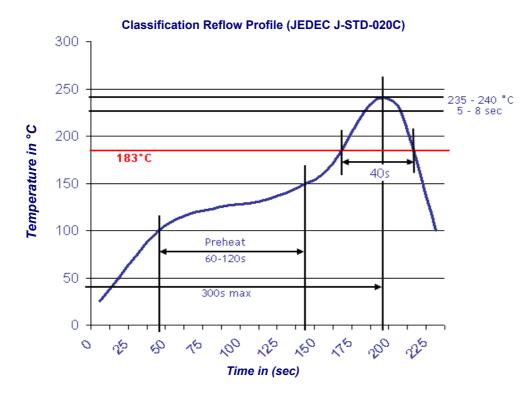
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### **Solder Condition**

## Lead Free Solder



		SMT Top View LED Red				
		Part No.: <b>M11K5001</b>				
		Custome	er:			
Chang	MATL:	Chui	DATE	04.12.2009		
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Dong

Ping

CHKD

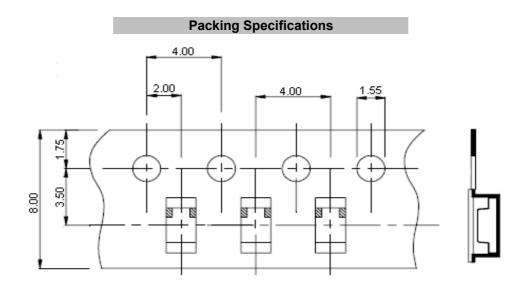
DRW:

APPD:

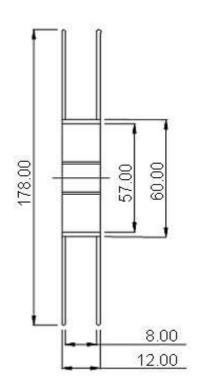
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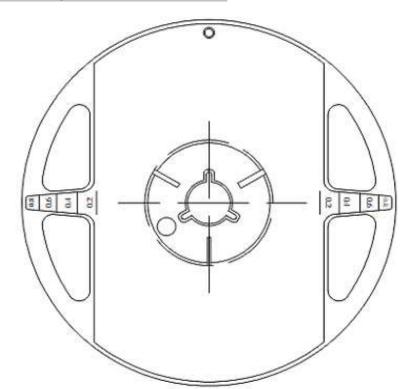






**Reel Specifications** 





					SMT Top View LED Red		
					Part No.: <b>M11K5001</b>		(5001
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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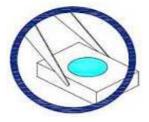




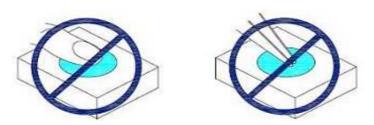
### Handling Precautions

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.



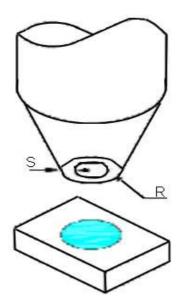
					SMT Top View LED Red		
					Part No.	art No.: <b>M11K5001</b>	
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner 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.



	SMT Top View LED Red						
	Part No	.: M11	K5001				
	Custome	er:					
MATL:	Chui	DATE	04.12.2009				
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Dong

Ping

CHKD

DRW:

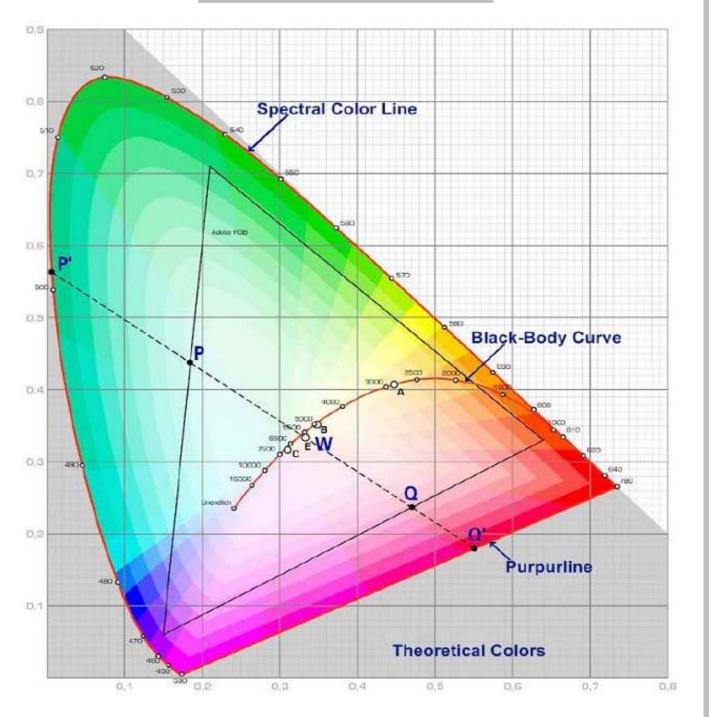
APPD:

Chang





Color table curve



					SMT Top View LED Red		
					Part No.: <b>M11K5001</b>		K5001
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	04.12.2009
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