

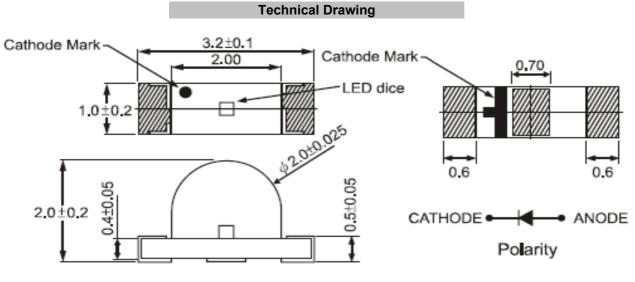


#### Applications

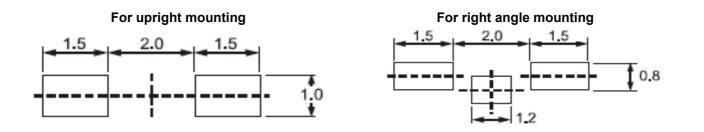
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys



**Recommended Soldering Pattern** 



<i>Notes :</i> All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.						SMT Chip LEL Red	)			
				Part No.	.: M11	K4001				
				Custome	er:					
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009			
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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	2Θ1/2	100					

\* Per NIST standards

					SMT Chip LED Red	)		
					Part No.: <b>M11K4001</b>			
					Custome	er:		
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						SMT Chip LED Red	)
					Part No.	: M11	<b>\4001</b>
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						SMT Chip LED Red	)
					Part No.	: M11P	<b>\4001</b>
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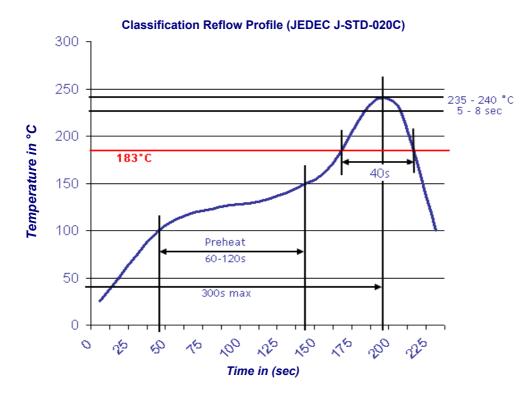
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#### **Solder Condition**

### Lead Free Solder



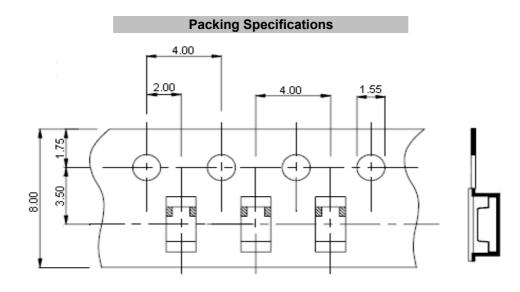
				SMT Chip LED Red			
				Part No.: <b>M11K4001</b>			
				Customer:			
Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009	
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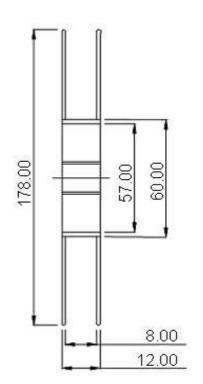
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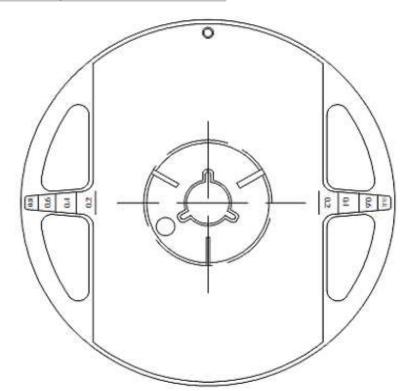






**Reel Specifications** 





					SMT Chip LED Red		
					Part No.: <b>M11K4001</b>		K4001
					Customer:		
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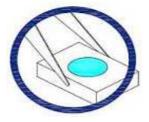




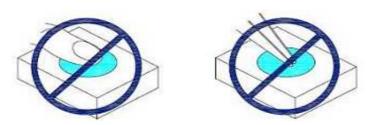
#### Handling Precautions

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.



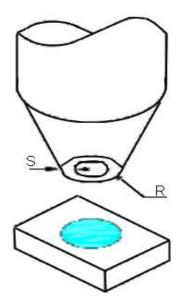
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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

DRW:

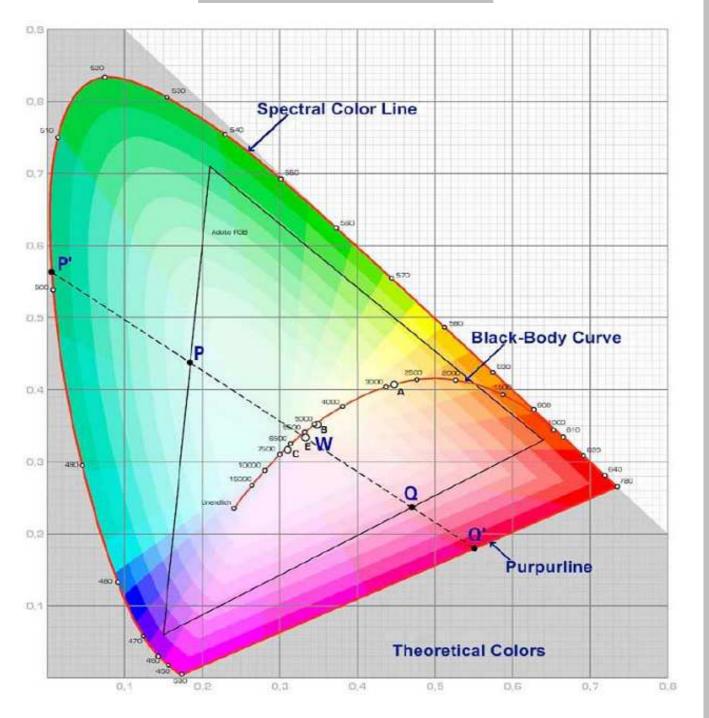
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Color table curve



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