



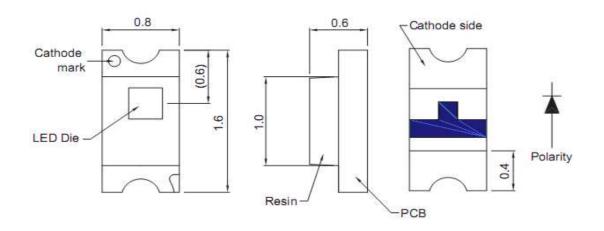




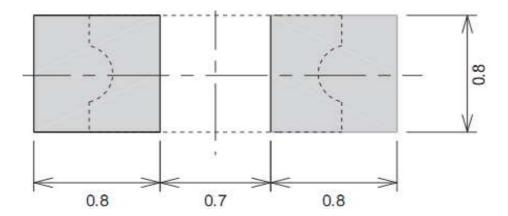
### **Applications**

Interior automotive lighting
Optical indicators
Communication Products
Backlighting
Toys

### **Technical Drawing**



### **Recommended Soldering Pattern**



#### Notes:

All dimensions in mm tolerance is  $\pm$  0.1mm unless otherwise noted.

# SMT Top View LED Yellow

Part No.: **M11D5007** 

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	1 from 9









## **Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	AllnGaP	Unit
Power Dissipation	$P_{D}$	72	mW
DC Forward Current	I <sub>F</sub>	30	mA
Plused Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	$V_R$	5	V
Operating Temperature	T <sub>OP</sub>	-30 to 80	°C
Storage Temperature	T <sub>ST</sub>	-40 to 85	°C

<sup>\* 0.1</sup> msec pulse, 10% duty cycle

## **Electrcal / Optical Characteristics**

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color		Yellow						
Material		AllnGaP						
Forward Voltage	typ.	1.9	$V_{F}$					
i oiwaiu voitage	max.	2.4	$V_{F}$					
Wavelength	λD	589	nm					
	λP	593	nm					
typ.	Δλ	15	nm					
Color Temperature	min.		K					
Color remperature	max.		K					
Luminous Intensity *	min.	40	mcd					
Luminous intensity	typ.	95	mcd					
Reverse Current	max.		μA					
Viewing Angle	2Θ1/2	140						

<sup>\*</sup> Per NIST standards

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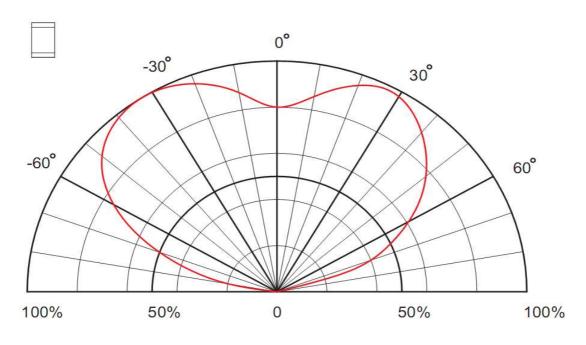


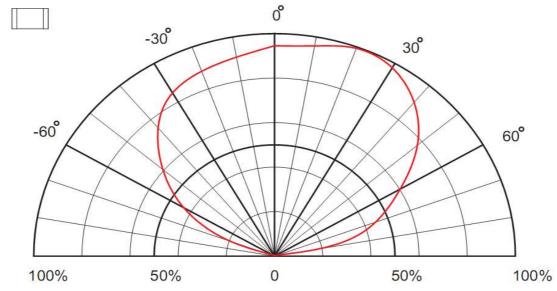






### **Directive Characteristics**





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APPD:	Ping			FINISH	Dia	Sheet	3 from 9

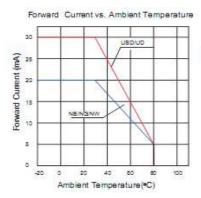


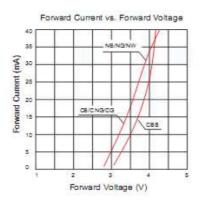


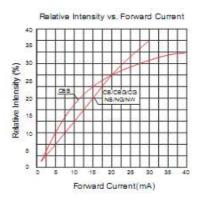


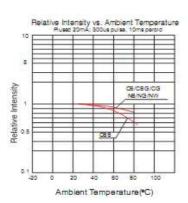


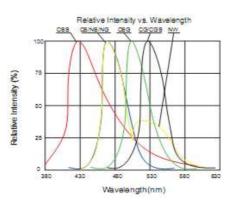
### **Curvs**

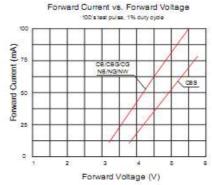












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Customer:

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	4 from 9

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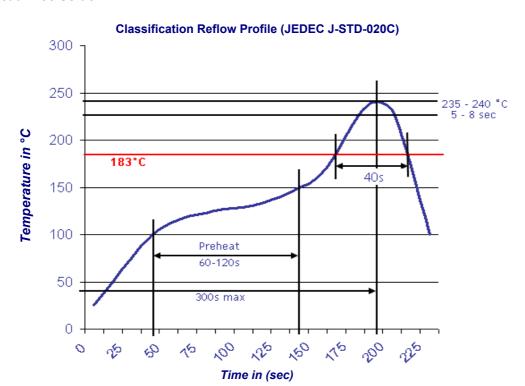






### **Solder Condition**

### Lead Free Solder



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DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	5 from 9

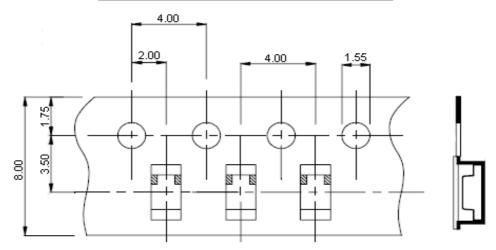




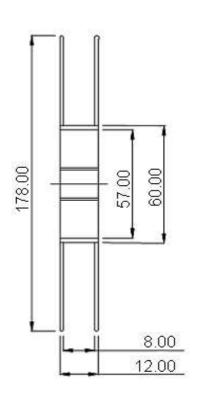


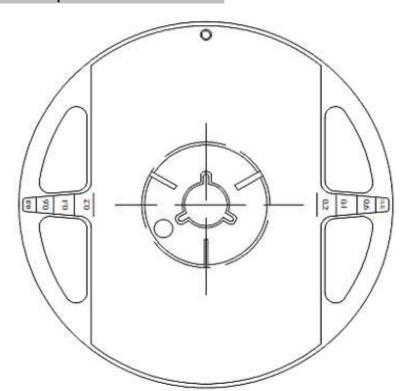


## **Packing Specifications**



### **Reel Specifications**





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DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	6 from 9





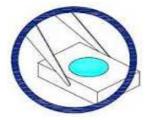




### **Handling Precautions**

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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APPD:	Ping			FINISH	Dia	Sheet	7 from 9

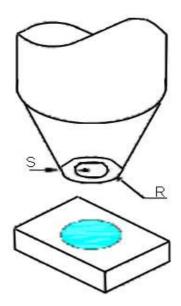








- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. 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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APPD:	Ping			FINISH	Dia	Sheet	8 from 9

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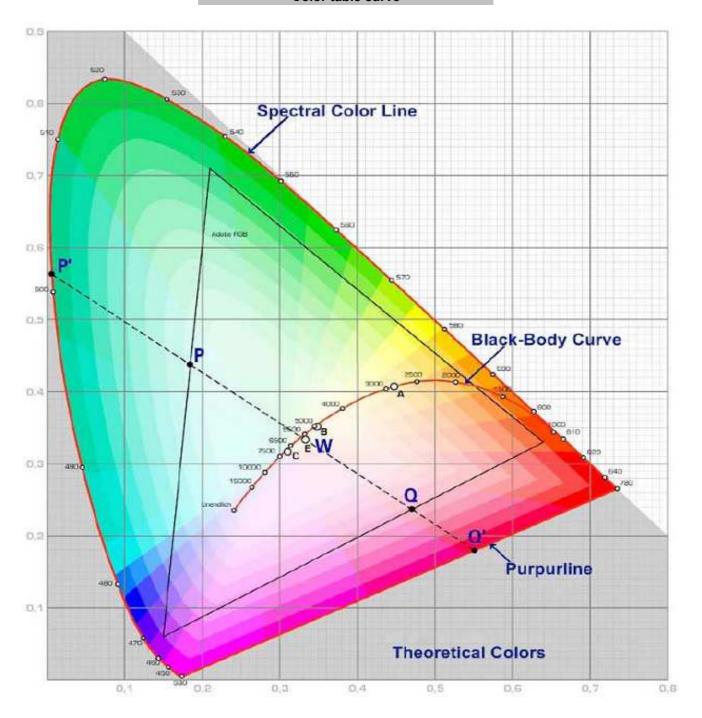








### Color table curve



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APPD:	Ping			FINISH	Dia	Sheet	9 from 9