

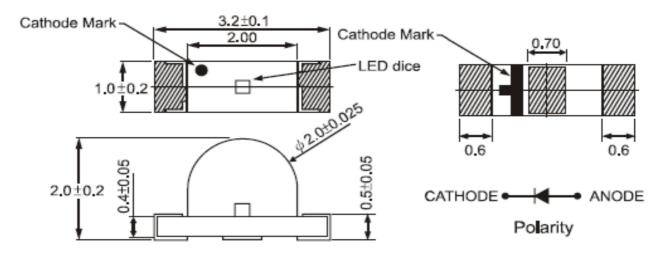




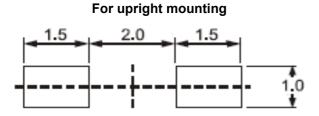


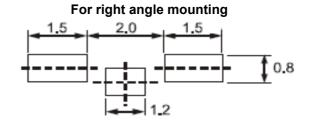
#### **Applications**

- Interior automotive lighting
  Optical indicators
  Communication Products
  Backlighting
  Toys
  - **Technical Drawing**



#### **Recommended Soldering Pattern**





#### Notes:

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

## SMT Chip LED Green

Part No.: **M11K4008** 

DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009
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### **Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	$P_{D}$		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>	-25 to 80	°C
Storage Temperature	T <sub>ST</sub>	-30 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		Green	
Material		InGaN	
Forward Voltage	typ.	3.5	$V_{F}$
Forward voilage	max.	4.0	$V_{F}$
Wavelength	λD	505	nm
	λP	505	nm
typ.	Δλ	-	nm
Color Temperature	min.	-	K
Color reinperature	max.	-	K
Luminous Intensity *	min.	63	mcd
Luminous intensity	typ.	130	mcd
Reverse Current	max.		μA
Viewing Angle	2Θ1/2	100	

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

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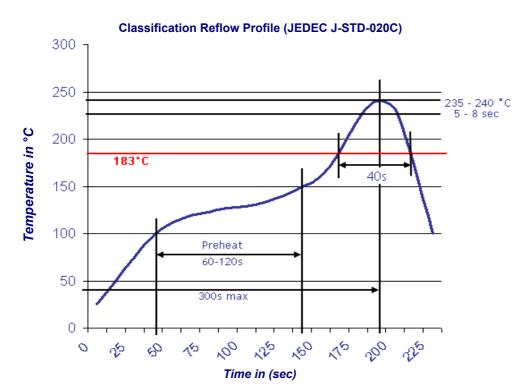






### **Solder Condition**

#### Lead Free Solder



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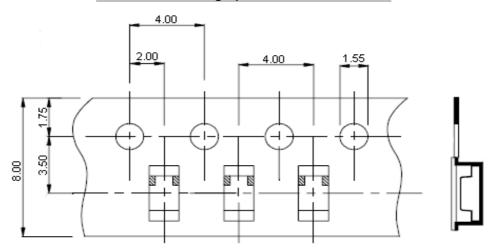




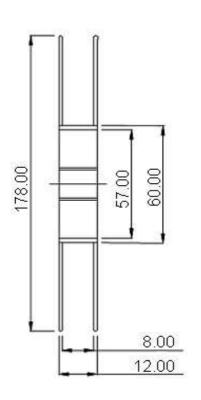


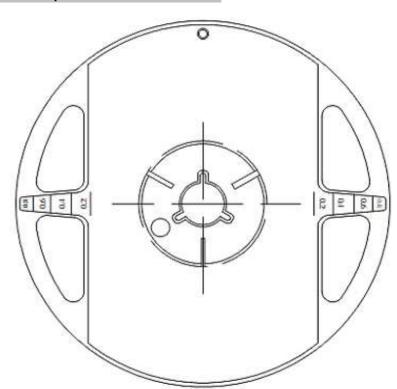


### **Packing Specifications**



### **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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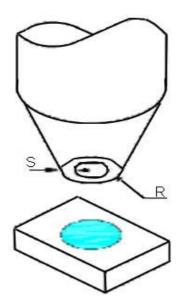








- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6.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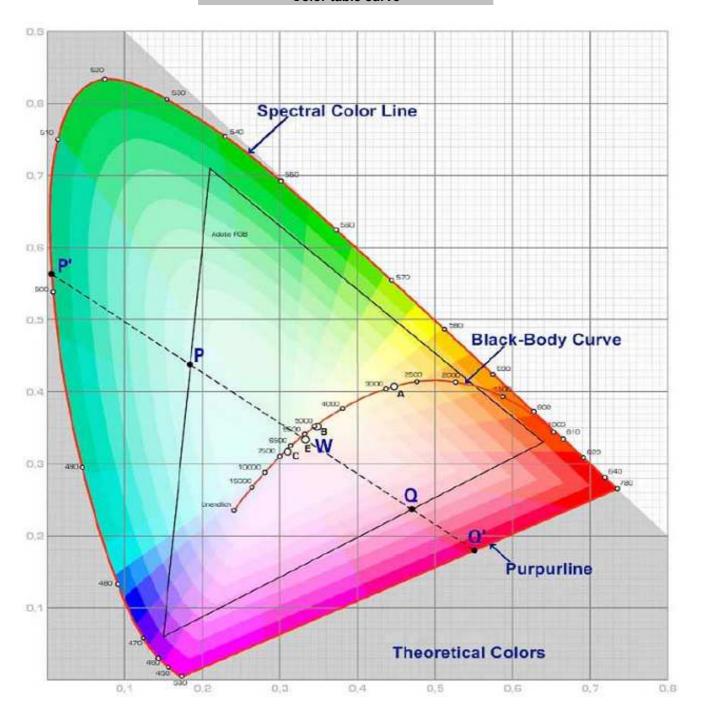








### Color table curve



SMT	Chip	LED
	Green	

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