



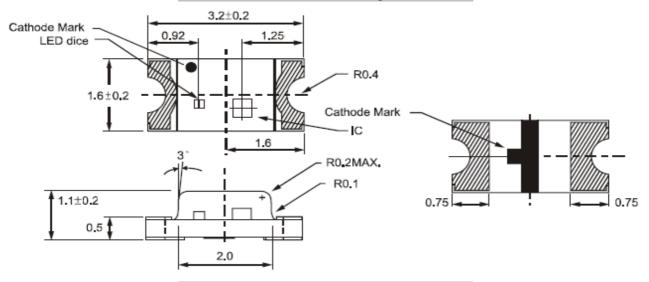




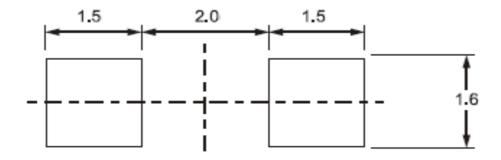
#### **Applications**

- Interior automotive lighting
   Optical indicators
   Communication Products
   Backlighting
  - Backlighting

#### **Technical Drawing**



#### **Recommended Soldering Pattern**



#### Notes:

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

## SMT Blinking Chip LED Red

Part No.: **M11N6007** 

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

Ta=25°C

Item	Symbol	GaAlAs	Unit
Power Dissipation	$P_{D}$		mW
DC Forward Current	I <sub>F</sub>	12	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>	-20 to 85	°C

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

### Electrcal / Optical Characteristics

Ta=25°C

Ermitting Color		Red	
Material		GaAlAs	
Forward Current	typ.	20	А
Torward Current	max.		Α
Wavelength	λP	660	nm
typ.	Δλ		nm
Color Temperature	min.		K
Color remperature	max.		K
Luminous Intensity *	min.	8.2	mcd
Luminous intensity	typ.	25	mcd
Dulas Bata	min.	2.0	Hz
Pulse Rate  VDD = 5V	typ.	2.4	Hz
122 01	max.	3.0	Hz
Reverse Current	max.		μA
Viewing Angle	201/2	120	·

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

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#### **Directive Characteristics**

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#### Curvs

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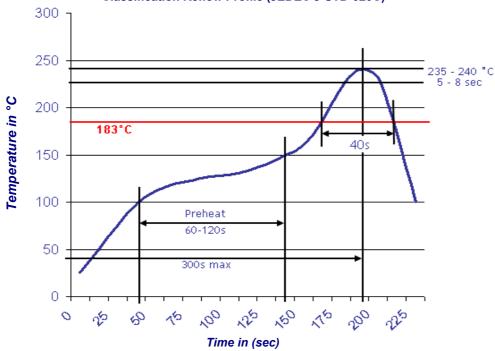




#### **Solder Condition**

#### Lead Free Solder





## SMT Blinking Chip LED Red

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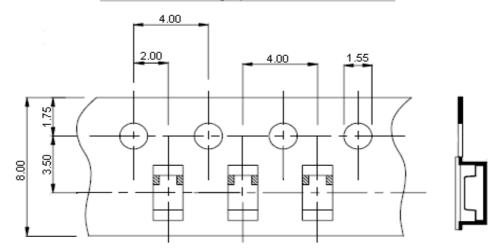




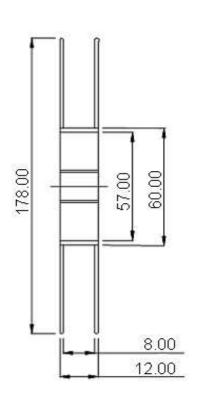


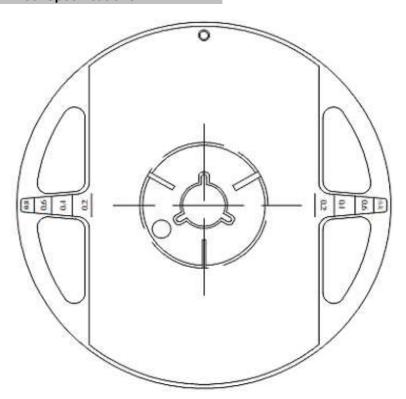


#### **Packing Specifications**



### **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.



### SMT Blinking Chip LED Red

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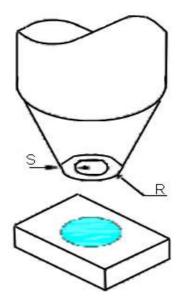








- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6.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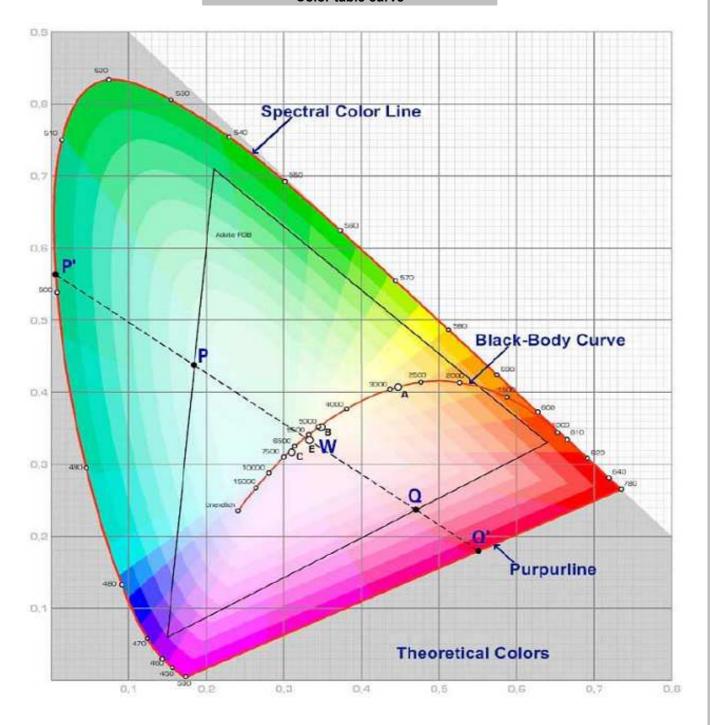








#### Color table curve



SMT Blinking	Chip	LED
Red		

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