

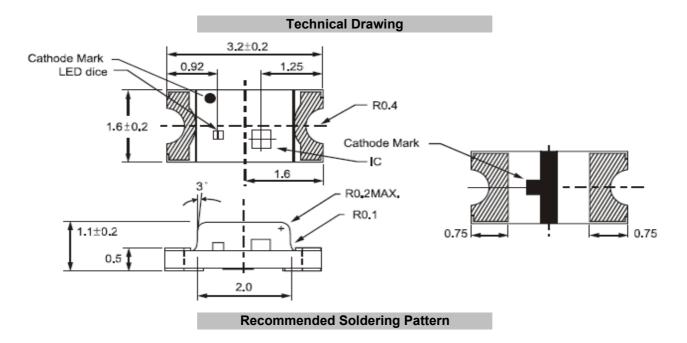


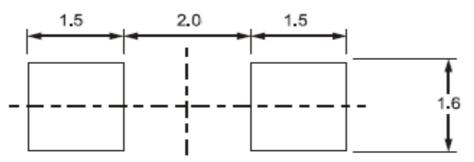
Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting

 Toys





Notes	: All dimensions ± 0.1mm unles		SMT	Blinking Chip Red	nking Chip LED Red								
			Part No.	.: M11N	M11N6006								
					Custome	er:							
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	05.12.2009						
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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	GaAsP / GaP	Unit
Power Dissipation	P _D		mW
DC Forward Current	I _F	12	mA
Plused Forward Current	I _{FP} *	100	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{OP}	-25 to 80	°C
Storage Temperature	T _{ST}	-20 to 85	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

Ta=25°C

Ermitting Color		Red	
Material		GaAsP / GaP	
Forward Current	typ.	20	А
Forward Current	max.		А
Wavelength	λP	640	nm
typ.	Δλ		nm
Color Temperature	min.		K
	max.		K
Luminous Intensity *	min.	2.4	mcd
Lumnous intensity	typ.	8.0	mcd
Bulas Bata	min.	2.0	Hz
Pulse Rate	typ.	2.4	Hz
VDD - 5V	max.	3.0	Hz
Reverse Current	max.		μA
Viewing Angle	2Θ1/2	120	

* Per NIST standards

					SMT Blinking Chip LED Red			
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Directive Characteristics

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Curvs

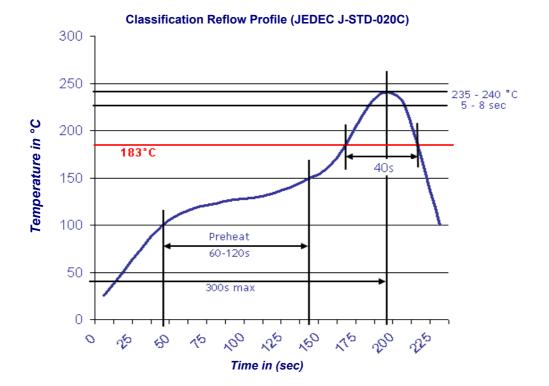
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Solder Condition

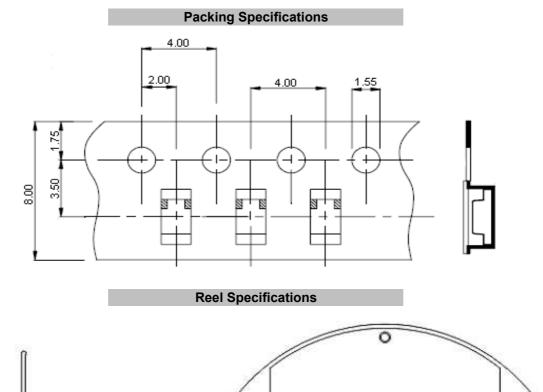
Lead Free Solder

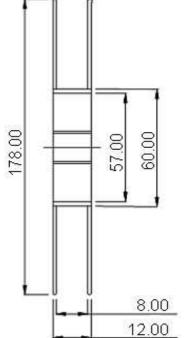


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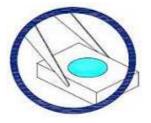




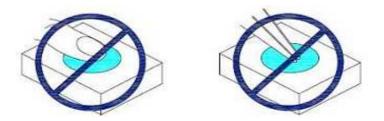
Handling Precautions

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.

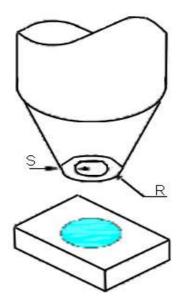


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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching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

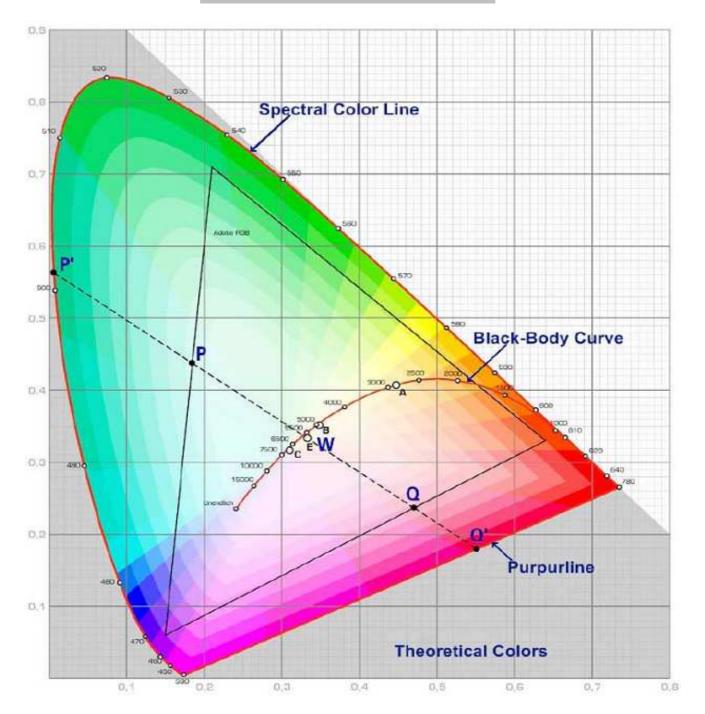


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Color table curve



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