

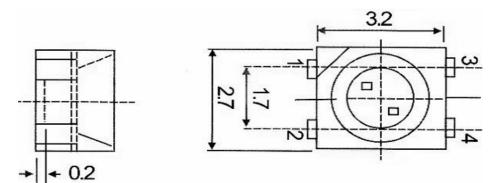


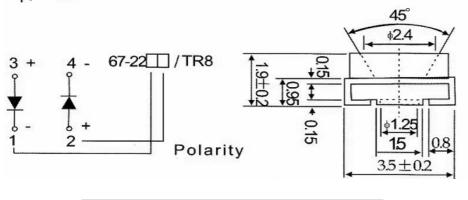
#### Applications

Interior automotive lighting

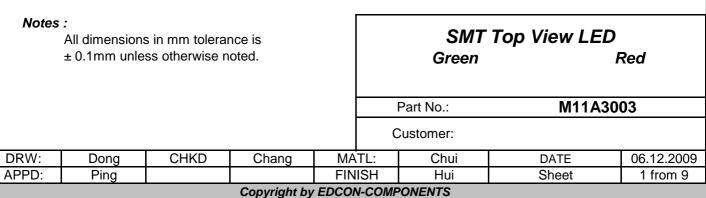
 Optical indicators
 Communication Products
 Backlighting
 Toys

#### **Technical Drawing**





**Recommended Soldering Pattern** 



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# Absolute Maximum Ratings

Ta=25°C

ltem	Symbol	GaP	AlGalnP	Unit	
Power Dissipation	P <sub>D</sub>			mW	
DC Forward Current	I <sub>F</sub>	20 mA			
Plused Forward Current	I <sub>FP</sub> *				
Reverse Voltage	V <sub>R</sub>			V	
Operating Temperature	T <sub>OP</sub>			°C	
Storage Temperature	T <sub>ST</sub>	-55 te	o 100	°C	

\* 0.1 msec pulse, 10% duty cycle

# Electrcal / Optical Characteristics

I<sub>F</sub>=20mA Ta=25°C

Ermitting Color		Green	Red		
Material		GaP	AlGalnP		
Forward Voltage	typ.	2.1	2.0	V <sub>F</sub>	
Forward voltage	max.	2.4	2.4	V <sub>F</sub>	
Wavelength	λD	571	625	nm	
-	λP			nm	
typ.	Δλ			nm	
Color Temperature	min.			K	
Color remperature	max.			K	
Luminous Intensity *	min.	8	6	mcd	
Lummous mensity	typ.	15	15	mcd	
Reverse Current	max.			μA	
Viewing Angle	2Θ1/2	2 130			

\* Per NIST standards

			SMT Top View LED								
				Green Red							
				Part No.:	M11A30	03					
			C	Customer:							
CHKD	Chang	MA	 ATL: Chui DATE 06.12.200								
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Dong

Ping

DRW:

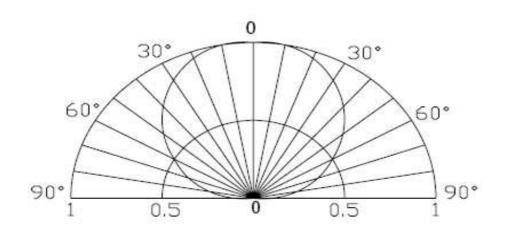
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## **Directive Characteristics**



					SMT Top View LED Green Red						
					Part No.: <b>M11A3003</b>						
					Customer:						
DRW:	Dong	CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009			
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				SMT Top View LED								
					Green		Red					
					Part No.:	M11A30	03					
Customer:												
	CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009					
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Dong Ping

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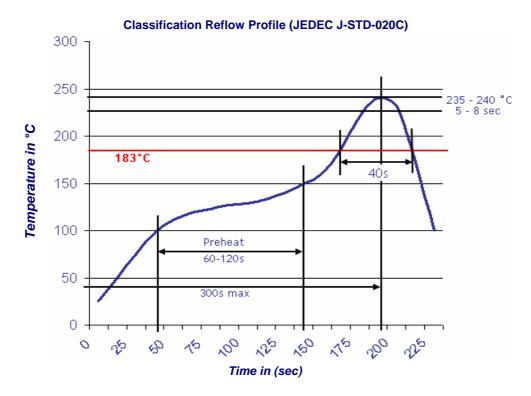
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## **Solder Condition**

### Lead Free Solder



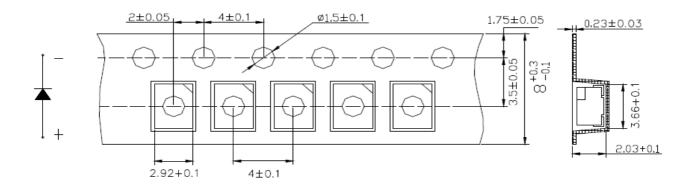
	SMT Top View LED											
Green Red												
				-	Part No.: <b>M11A3003</b>							
					С	Sustomer:						
DRW:	DRW: Dong CHKD Chang MATL: Chui DATE 06.12.2009											
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**Packing Specifications** 



**Reel Specifications** 

					SMT Green	Top View LED	) Red			
					Part No.: <b>M11A3003</b>					
					C	Customer:				
DRW:	Dong	CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009		
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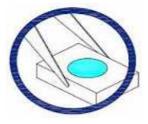




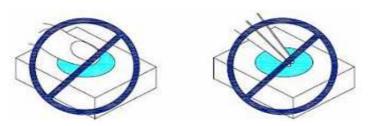
### **Handling Precautions**

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 Top View LED						
				Green Red						
				Part No.: <b>M11A3003</b>						
				C	Customer:					
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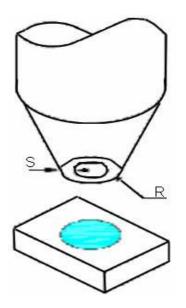
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching 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.



SMT Top View LED Green Red								
		Part No.:	M11A30	03				
	Customer:							
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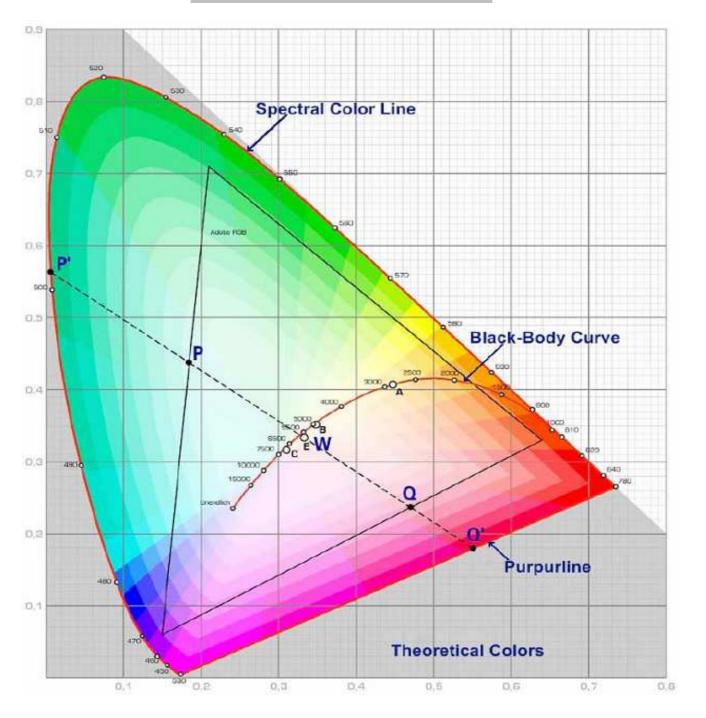
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Color table curve



					SMT Top View LED			
					Green Red			Red
					Part No.: <b>M11A3003</b>			03
					Customer:			
DRW:	Dong	CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009
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