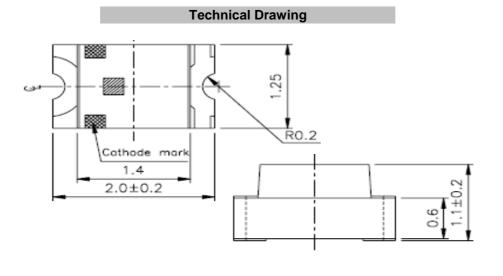




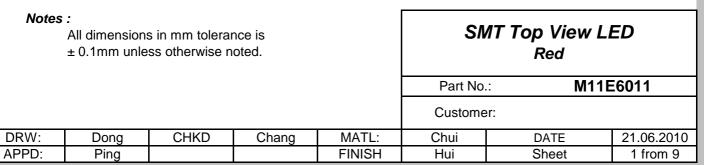
Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys



Recommended Soldering Pattern



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Absolute Maximum Ratings

ltem	Symbol	AlGaInP	Unit
Power Dissipation	PD		mW
DC Forward Current	I _F		mA
Plused Forward Current	I _{FP} *		mA
Reverse Voltage	V _R		V
Operating Temperature	T _{OP}		°C
Storage Temperature	T _{ST}		°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

 $I_F = 20 \text{mA}$

Ermitting Color		Red					
Material		AlGaInP					
Forward Voltage	typ.	1.9	V _F				
r orward voltage	max.	2.4	V _F				
Wavelength	λD	620	nm				
	λP	635	nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
	max.		K				
Luminous Intensity *	min.	80	mcd				
Lummous intensity	typ.	100	mcd				
Reverse Current	max.		μA				
Viewing Angle	201/2	120					

* Per NIST standards

					SMT Top View LED Red					
					Part No.: M11E6011		E6011			
					Custome	er:				
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010			
APPD:	Ping			FINISH	Hui	Sheet	2 from 9			
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Directive Characteristics

					SMT Top View LED Red					
					Part No.: M11E6011		E6011			
					Customer:					
	Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010			
	Ping			FINISH	Hui	Sheet	3 from 9			
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Curvs

				SMT Top View LED Red		
				Part No.: M11E6011		E6011
				Customer:		
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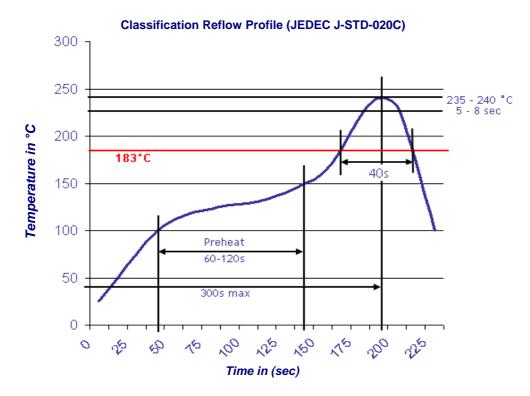
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Solder Condition

Lead Free Solder



		SMT Top View LED Red		
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Chang	MATL:	Chui	DATE	21.06.2010
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Dong

Ping

CHKD

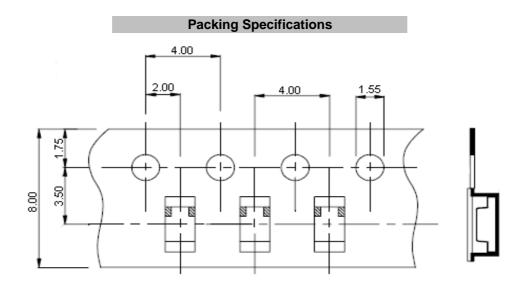
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APPD:

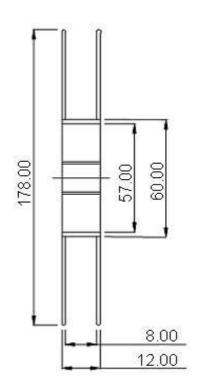
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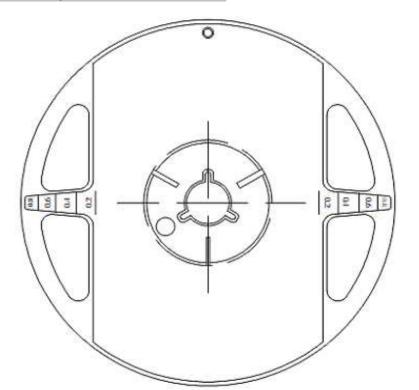






Reel Specifications





					SMT Top View LED Red		
					Part No.: M11E6011		E6011
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010
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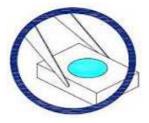




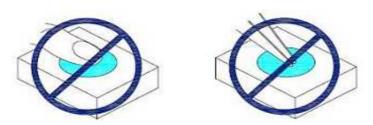
Handling Precautions

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.



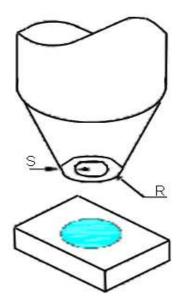
					SMT Top View LED Red		
					Part No.: M11E6011		E6011
					Custome	er:	
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	21.06.2010
APPD:	Ping			FINISH	Hui	Sheet	7 from 9

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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 Red				
	Part No.	.: M11	E6011		
	Customer:				
MATL:	Chui	DATE	21.06.2010		
FINISH	Hui	Sheet	8 from 9		

Dong

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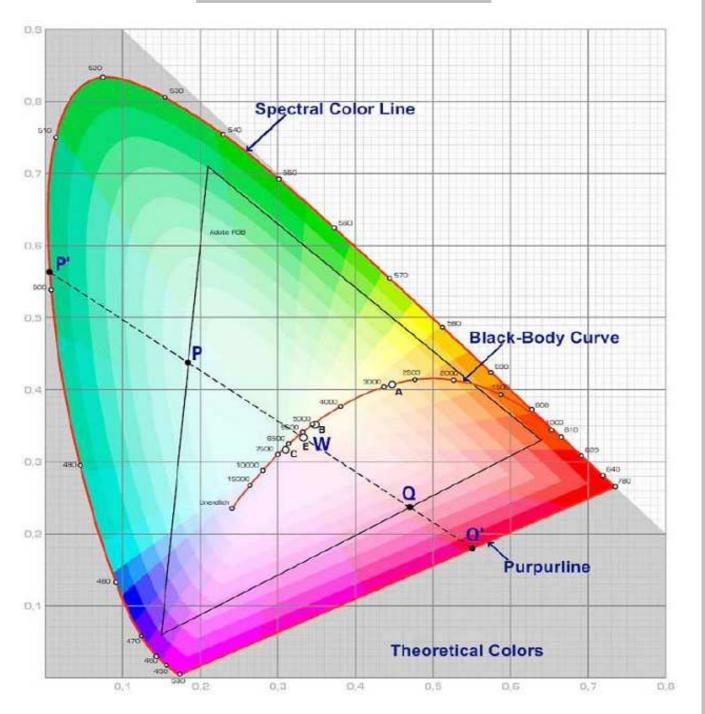
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Chang





Color table curve



					SMT Top View LED Red		
					Part No.: M11E6011		E6011
					Custome	er:	
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