

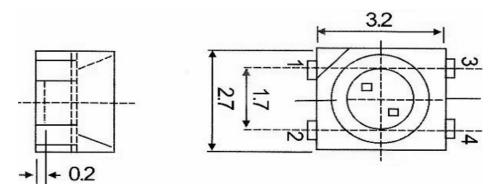


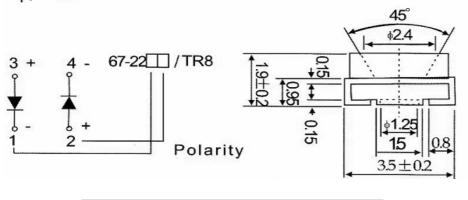
Applications

Interior automotive lighting

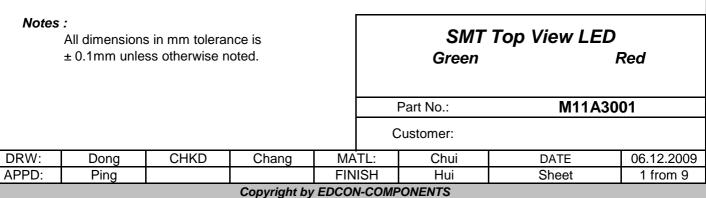
 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing





Recommended Soldering Pattern



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Absolute Maximum Ratings

Ta=25°C

ltem	Symbol	GaP	AlGalnP	Unit		
Power Dissipation	P _D					mW
DC Forward Current	I _F	2	20			
Plused Forward Current	I _{FP} *					
Reverse Voltage	V _R					
Operating Temperature	T _{OP}	T _{OP}				°C
Storage Temperature	T _{ST}	-55 te	o 100	°C		

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color		Green	Red		
Material		GaP	AlGalnP		
Forward Voltage	typ.	2.1	2.0	V _F	
Forward voltage	max.	2.4	2.4	V _F	
Wavelength	λD	571	639	nm	
-	λP			nm	
typ.	Δλ			nm	
Color Temperature	min.			K	
Color remperature	max.			K	
Luminous Intensity *	min.	15	24	mcd	
Luminous intensity "	typ.	25	41	mcd	
Reverse Current	max.			μA	
Viewing Angle	2Θ1/2	130			

* Per NIST standards

			SMT Top View LED								
			Green Red								
				Part No.:	M11A30	01					
			C	Customer:							
CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009					
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Dong

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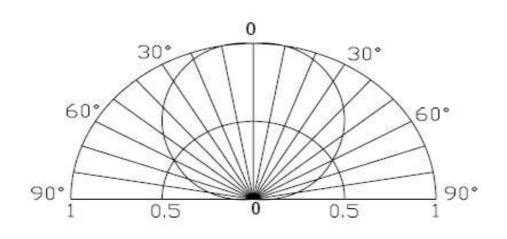
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Directive Characteristics



	SMT Top View LED										
					Green Red						
				-	Part No.: M11A3001			01			
					C	Customer:					
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			SMT Top View LED								
			Green Red								
				Part No.:	M11A30	01					
			C	Customer:							
CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009					
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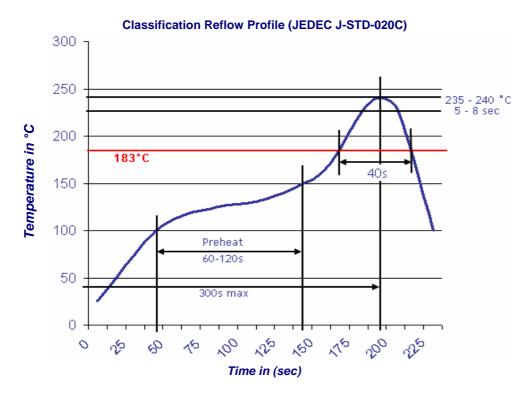
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Solder Condition

Lead Free Solder



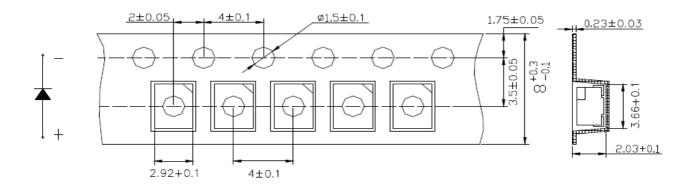
					SMT Top View LED							
					Green Red							
				Part No.: M11A3001								
					С	sustomer:						
DRW: Dong CHKD Chang MATL: Chui DATE 06.12.2009												
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Packing Specifications



Reel Specifications

SMT Top View LED Green Red									
					Part No.: M11A3001				
					C	Customer:			
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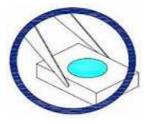




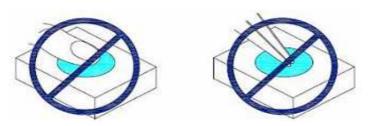
Handling Precautions

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.: M11A3001						
			Customer:						
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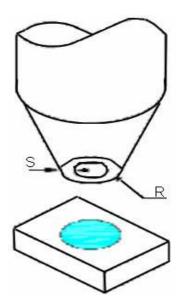
APPD:

email: info@edcon





- 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	01					
Customer:									
MA	TL:	Chui	DATE	06.12.2009					
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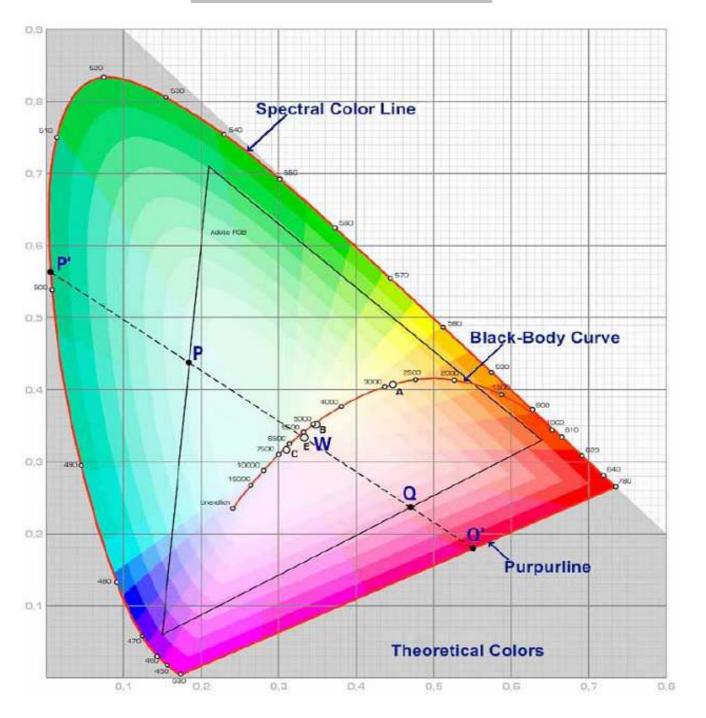
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APPD:





Color table curve



					SMT Top View LED			
					Green Red			Red
					Part No.: M11A3001			01
					Customer:			
DRW:	Dong	CHKD	Chang	MA	TL:	Chui	DATE	06.12.2009
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