

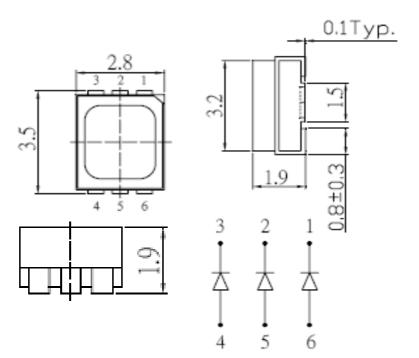


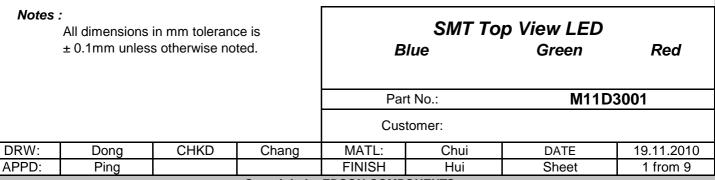
Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing





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Absolute Maximum Ratings

Item	Symbol	Blue / Green	Red	Unit
Power Dissipation	P _D	108	130	mW
DC Forward Current	I _F	30	50	mA
Plused Forward Current	I _{FP} *	100	120	mA
Reverse Voltage	V _R		5	V
Operating Temperature	T _{OP}	-30	°C	
Storage Temperature	T _{ST}	-40	°C	

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

Ermitting Color	Blue		Green	Red			
Material							
	typ.	3.1	3.1	2.1	V _F		
Forward Voltage	max.	3.6	3.6	2.6	V _F		
Wavelength	λD	465 ~ 475	520 ~ 530	620 ~ 630	nm		
	λP				nm		
typ.	Δλ				nm		
Color Temperature	min.				K		
Color reinperature	max.				K		
Luminous Intensity *	min.	220	750	750	mcd		
Luminous intensity	typ.	400	1120	1000	mcd		
Reverse Current	max.				μA		
Viewing Angle	2Θ1/2	201/2 120					

* Per NIST standards

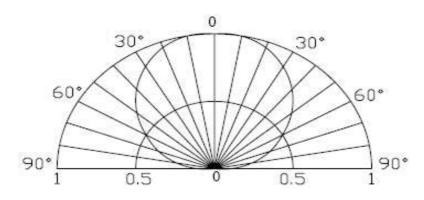
				SMT Top View LED					
				Blue		Green	Red		
				Pai	rt No.:	M11D3	3001		
				Cus	tomer:				
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	19.11.2010		
APPD:	Ping			FINISH	Hui	Sheet	2 from 9		
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Directive Characteristics



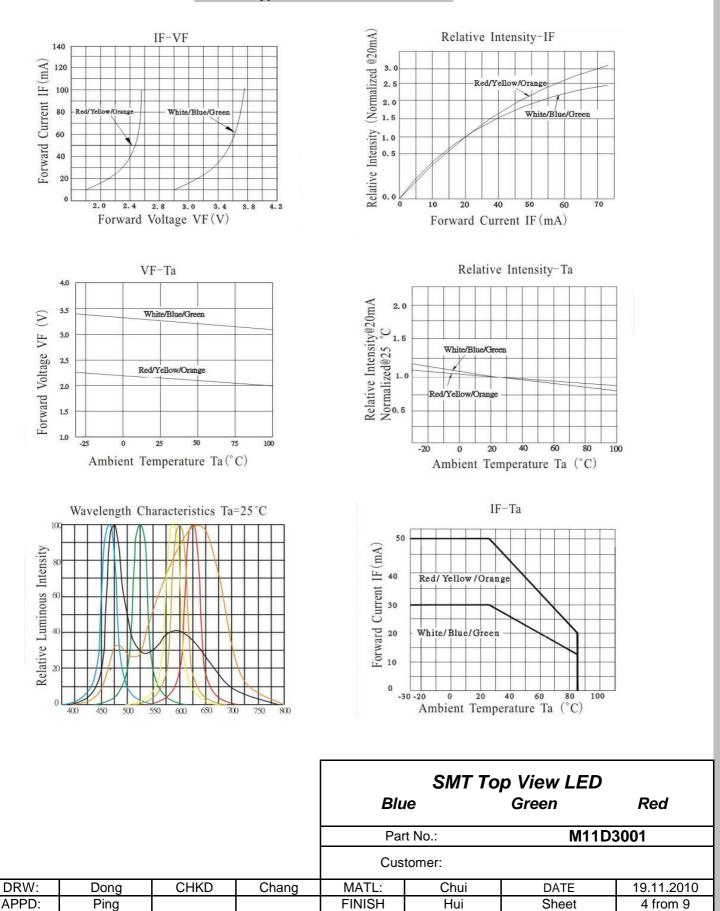
		SMT Top View LED			
	Blue		Green	Red	
	Part No.: M11D3001				
	Customer:				
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Typical Characteristics



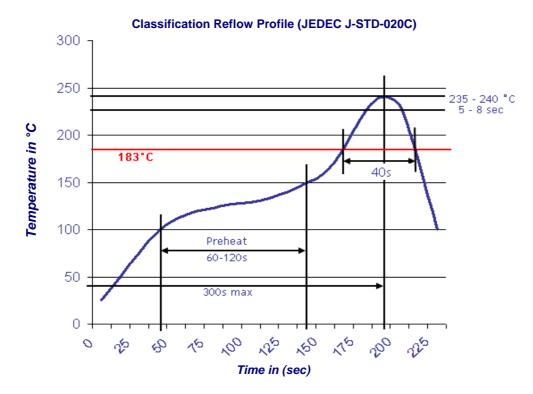
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Solder Condition

Lead Free Solder



				SMT Top View LED			
				В	lue	Green	Red
				Part No.: M11D3001			03001
				Cus	tomer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	19.11.2010
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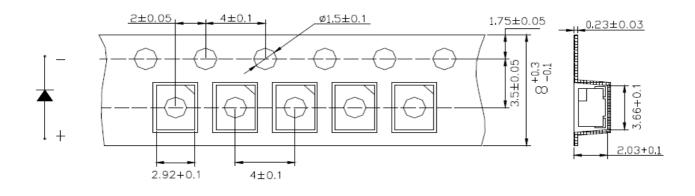
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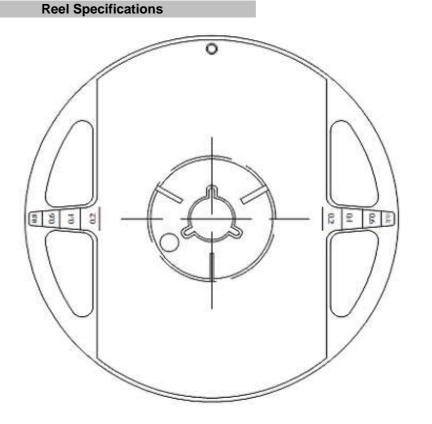
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Packing Specifications





				SMT Top View LED					
				Blue		Green	Red		
				Part No.: M11D3001			3001		
				Cus	tomer:				
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	19.11.2010		
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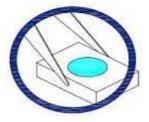




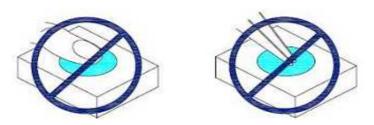
Handling Precautions

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.

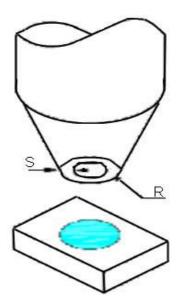


		SMT Top View LED				
	Blue Gre		Green	Red		
	Par	t No.:	M11D	3001		
	Customer:					
DRW: Dong CHKD Chang	MATL:	Chui	DATE	19.11.2010		
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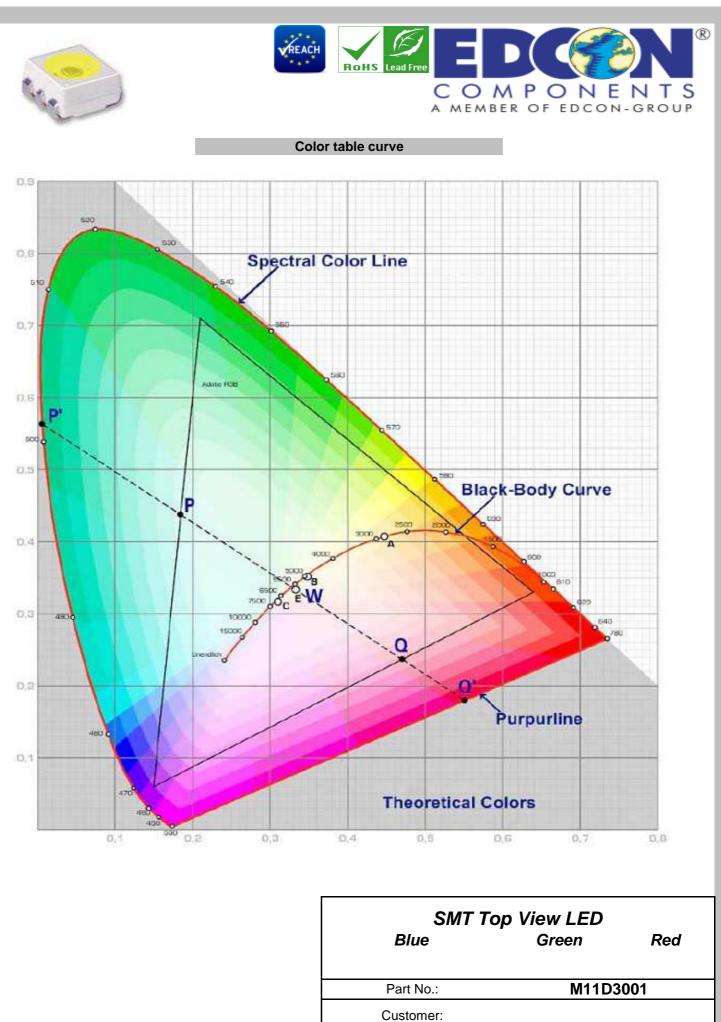




- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
- 5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.
- 6. 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					
				Blue		Green	Red		
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				Par	t NO		3001		
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