

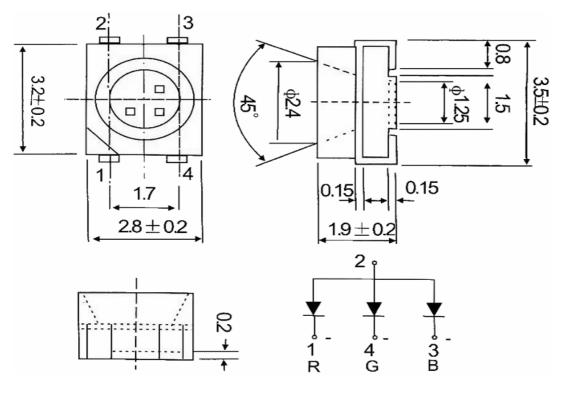


Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern

Notes	: All dimensions i	in mm tolerand	ce is		SMT To	p View LED	
	± 0.1mm unless	s otherwise no	ted.	В	lue	Green	Red
				Par	rt No.:	M11H5	5001
				Cus	tomer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	07.12.2009
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Absolute Maximum Ratings

Ta=25°C

ltem	Symbol	GaN / SiC	AlGalnP	Unit		
Power Dissipation	PD	-				
DC Forward Current	I _F	20 m/				
Plused Forward Current	I _{FP} *					
Reverse Voltage	V _R					
Operating Temperature	T _{OP}		°C			
Storage Temperature						

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA Ta=25°C

Ermitting Color	Blue		Green	Red	
Material	GaN / SiC		GaN / SiC	AlGaInP	
Forward Voltage	typ.	3.5	3.5	2.0	V _F
	max.	4.3	4.3	2.4	V _F
Wavelength	λD	470	525	639	nm
-	λP				nm
typ.	Δλ				nm
Color Temperature	min.				K
	max.				K
Luminous Intensity *	min.	32	125	63	mcd
Luminous intensity	typ.	57	216	112	mcd
Reverse Current	max.				μA
Viewing Angle	201/2		130		

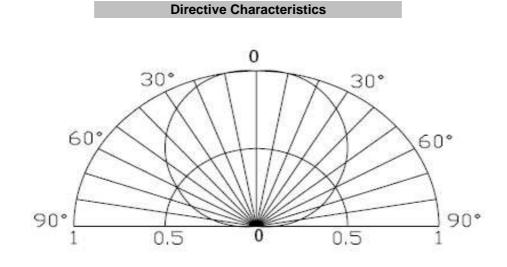
* Per NIST standards

				SMT Top View LED						
				Blue Green R						
				Part No.: M11H5001						
				Cus	tomer:					
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				SMT Top View LED				
				Blue Green		Green	Red	
				Par	t No.:	M11H	5001	
				Customer:				
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Curvs

				SMT Top View LED						
				Blue Green		Red				
				Part No.: M11H5001						
				Cus	tomer:					
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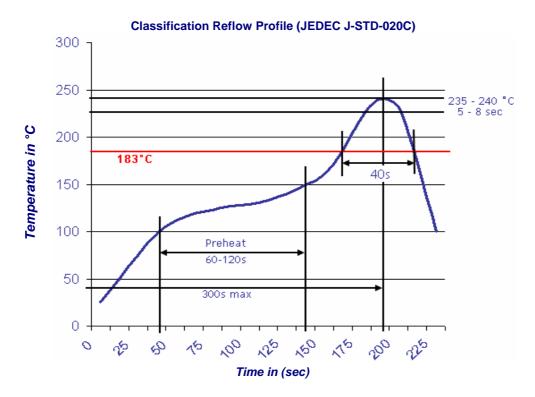
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Solder Condition

Lead Free Solder



				SMT Top View LED						
				Blue Green			Red			
				Der	rt No.:	N4414	5004			
				Par	T NO.:	M11H	5001			
				Customer:						
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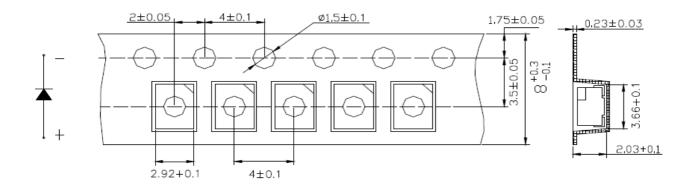
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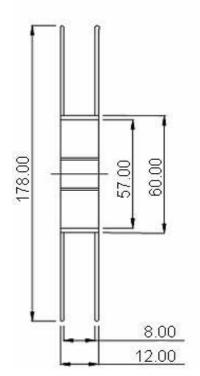


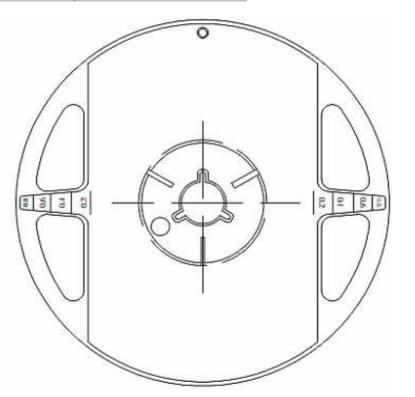


Packing Specifications



Reel Specifications





Blue Green	Red
Part No.: M11H5	5001
Customer:	
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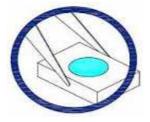




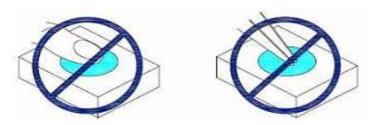
Handling Precautions

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.



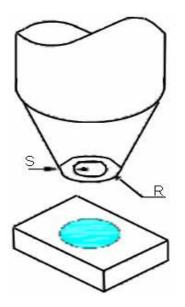
				SMT Top View LED				
				Blue Green Re			Red	
				Part No.: M11H5001				
				Customer:				
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- 4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as 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.



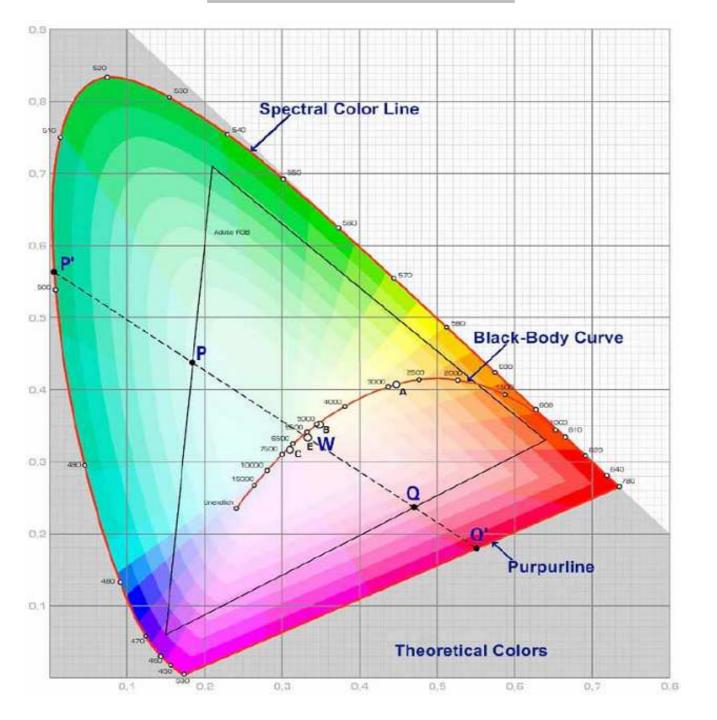
SMT Top View LED								
				Blue Green F			Red	
				Part No.: M11H5001				
				Cus	tomer:			
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Color table curve



				SMT Top View LED				
				Blue		Green	Red	
				Part No.: M11H5001				
				Customer:				
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