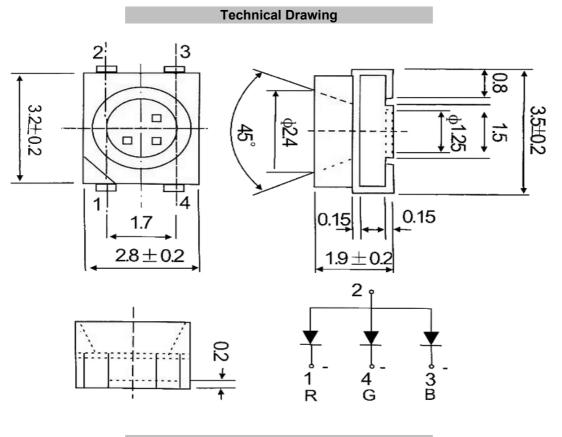




Applications

Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys



Recommended Soldering Pattern

	All dimensions i				•	p View LED	
± 0.1mm unless otherwise noted.				В	lue	Green	Red
			Par	rt No.:	M11H5002		
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
APPD:	Ping			FINISH Hui Sheet 1 fro			

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Absolute Maximum Ratings

Ta=25°C

Item	Symbol	GaN	InGaN	AllnGaP	Unit
Power Dissipation	PD	95	114	65	mW
DC Forward Current	I _F	25	30	30	mA
Plused Forward Current	I _{FP} *	150	160	185	mA
Reverse Voltage	V _R				V
Operating Temperature	T _{OP}	-40°C ~ 80°C			°C
Storage Temperature	T _{ST}	-4	0°C ~ 80°C		°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=20mA

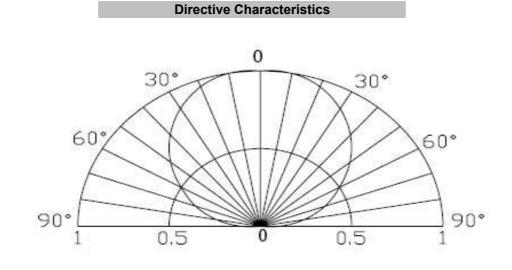
Ermitting Color		Blue	Green	Red		
Material		GaN	InGaN	AllnGaP		
Forward Voltage	typ.	3.2	3.2	1.9	V _F	
Forward voltage	max.				V _F	
Wavelength	λD	465~470	515~520	618~621	nm	
-	λP				nm	
typ.	Δλ				nm	
Color Temperature	min.				K	
Color reinperature	max.				K	
Luminous Intensity *	min.	125	600	160	mcd	
Lummous intensity	typ.	160	780	210	mcd	
Reverse Current	max.	5				
Viewing Angle						

* Per NIST standards

					SMT To	p View LED	
				В	Blue Green		Red
				Pai	t No.:	M11H	5002
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
APPD:	Ping			FINISH	Hui	Sheet	2 from 9
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				SMT Top View LED			
				Blue Green		Red	
				Par	t No.:	M11H	5002
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
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Curvs

				SMT Top View LED			
				В	lue	Green	Red
				Part No.: M11H5002		5002	
				Cus	tomer:		
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
APPD:	Ping			FINISH Hui Sheet 4 from			4 from 9
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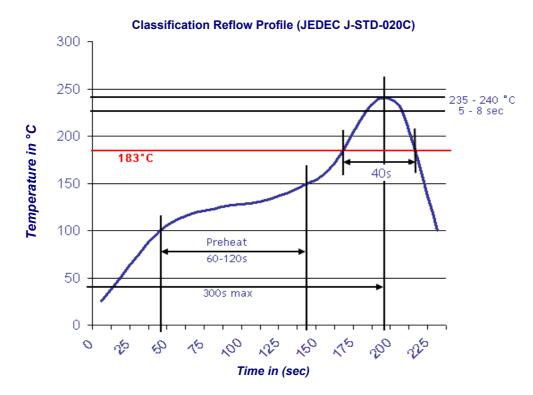
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Solder Condition

Lead Free Solder



				SMT Top View LED			
				В	Blue Green		Red
				Part No.: M11H5002			5002
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
APPD:	Ping			FINISH	Hui	Sheet	5 from 9

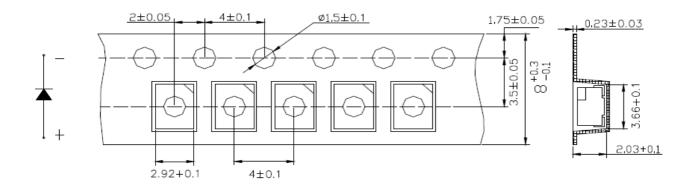
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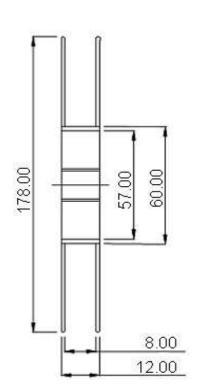




Packing Specifications



Reel Specifications



	/

				SMT Top View LED			
				В	Blue Green		Red
				Part No.: M11H5002			5002
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
APPD:	Ping			FINISH	Hui	Sheet	6 from 9

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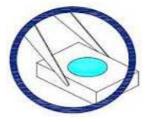




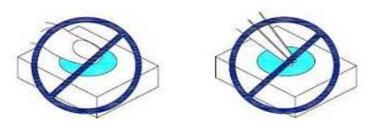
Handling Precautions

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.



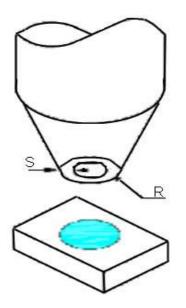
				SMT Top View LED				
				Blue Green		Red		
				Par	t No.:	M11H	5002	
				Customer:				
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010	
APPD:	Ping			FINISH	Hui	Sheet	7 from 9	
		i						

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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.

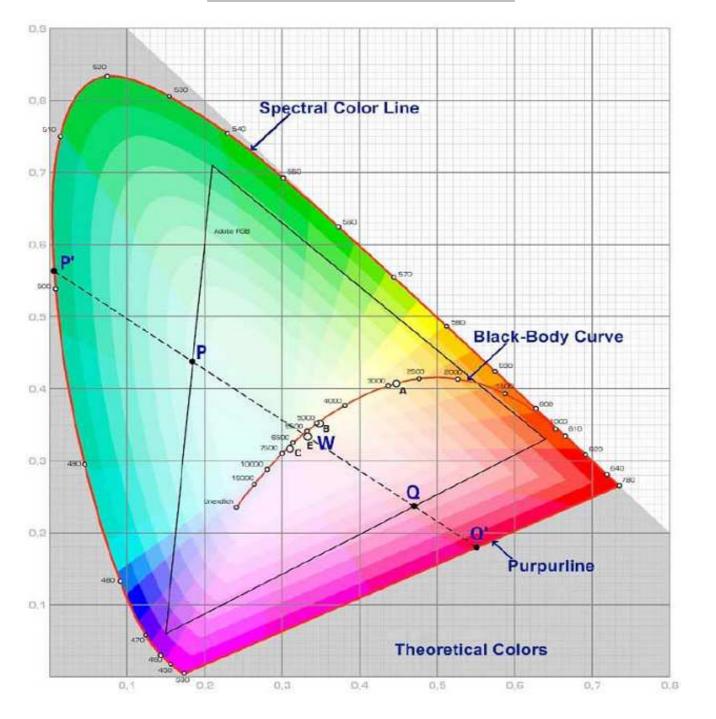


				SMT Top View LED			
				В	lue	Green	Red
				Pai	t No.:	M11H	5002
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
APPD:	Ping			FINISH	Hui	Sheet	8 from 9
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Color table curve



				SMT Top View LED			
				В	lue	Green	Red
				Part No.: M11H5002			5002
				Customer:			
DRW:	Dong	CHKD	Chang	MATL:	Chui	DATE	03.05.2010
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