





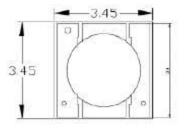


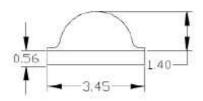
Applications

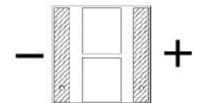
Features

Long operating life
highest flux
Lambertian radition pattern
More energy efficient than incandescent and most halogen lamps
Available in White
Low Voltage DC operated
Cool beam, safe to the touch
Instant light (less than 100ns)
Fully dimmable
NO UV

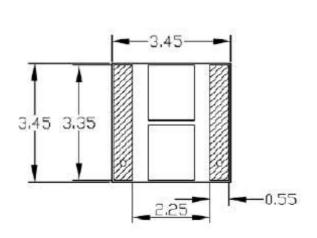
Technical Drawing







Recommended Soldering Pattern



Notes:

All dimensions in mm tolerance is ± 0.1 mm unless otherwise noted.

1Watt	3,5x3,5mm LED
	White

Part No.: **M11F3001**

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Typical Optical / Electrical Characteristics @ Ta=25°C

Item	symbol	Condition	Min	Тур	Max.	Unit
Forward Voltage	VF	IF=350mA	3,0	3,4	4,0	V
Reverse Current	IR	VR=5V			50	μΑ
50% Power Angle	2Ø _{1/2}	IF=350mA	110	120	130	deg
Luminious Intensity	Ø۷	IF=350mA	80	90	100	LM
Recommend Forward Current	IF			350		mA
Chromaticity	TC	IF=350mA		6500		K
Thermal Resistance, Juntion to case	Rjp	IF=350mA		10		°C/W

Notes

- 1 Tolerance of measurement of forward voltage ± 0,1V
- 2 Tolerance of measurement of peak Wavelength ± 2,0nm
- 3 Tolerance of measurement of luminious intensity ± 15%

Absolute Maximum Rating

Item	symbol	Absolute Maximum Rating	Unit
Forward Current	IF	350	mA
Peak Forward Current	IFD	500	mA
Reverse Votlsge	VR	5	V
Power Dissipation	PD	1000	mW
Operating Temperature	Topr	30°C to + 80°C	
Electrostatic discharge	ESD	±2000	V
Storage Temperature	Tstg	40°C to +100°C	
Lead Soldering Temperature	Tsol	260°C for 3 seconds max.	

IFP Conditions: Pulse Width: ≤ 10msec duty ≤ 1/10

All High Power emitter LED Products mounted on aluminium metal-core printing circuit board, can be lighted directly, but we do not recommend lighting the high power products for more than 5 seconds without a directly, but we do not recommend lighting the high power products for more than 5 seconds without a appropriate heat dissipation equipment.

Re-flow, wave peak and soak-stannum soldering etc. is not suitable for this products.

Suggest to solder it by professional high power LED soldering machine.

Can use invariable - temperature searing-iron with soldering condition: ≤260°C for 3 seconds max.

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	White

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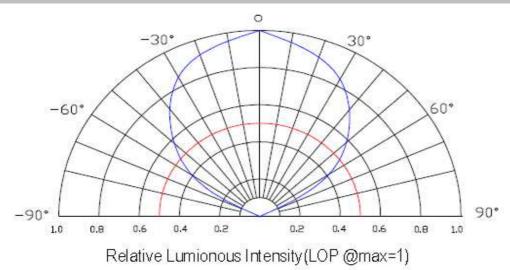




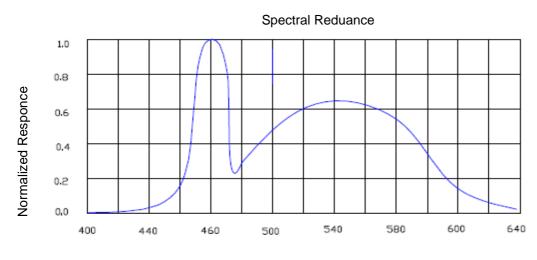




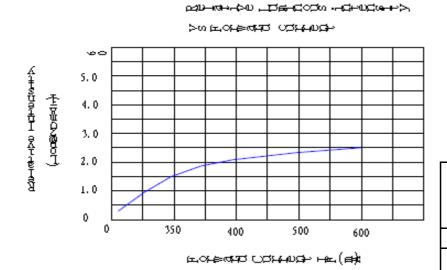
Directive Characteristics



Typical optical / Electrical Characteristics Curves (Tj=25°C Unless Otherwise Noted)



Wave Length



1Watt 3,5x3,5mm LED

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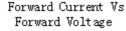


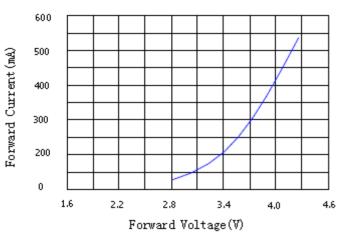




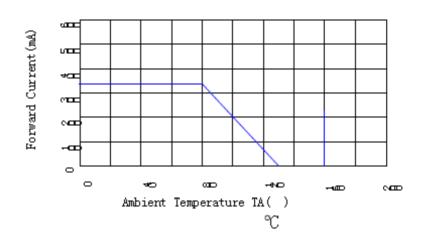


Typical optical / Electrical Characteristics Curves (Tj=25°C Unless Otherwise Noted)

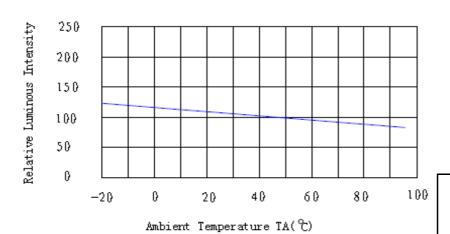




Forward Current Derating Curve



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1Watt 3,5x3,5mm LED

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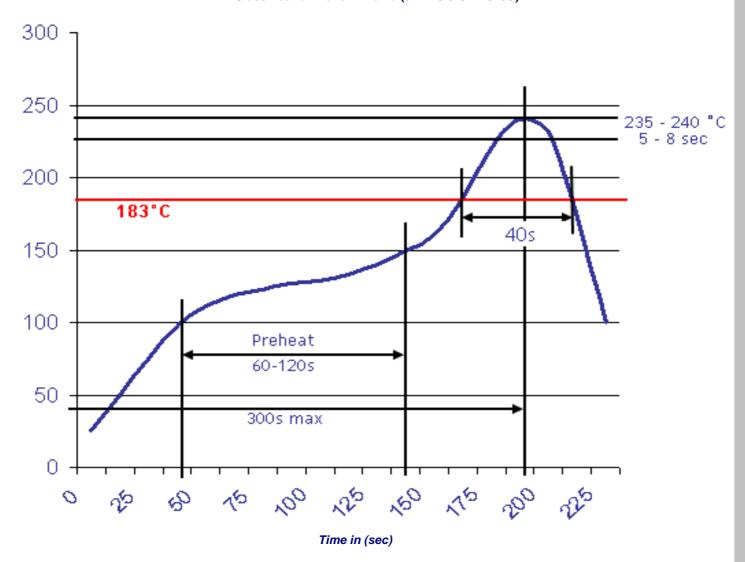




Solder Condition

Lead Free Solder

Classification Reflow Profile (JEDEC J-STD-020C)



1Watt 3,5x3,5mm LED

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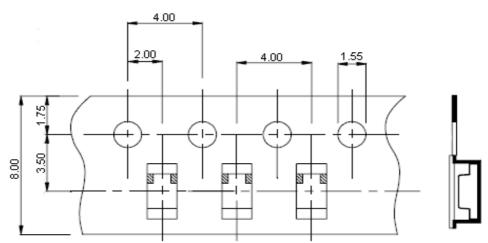




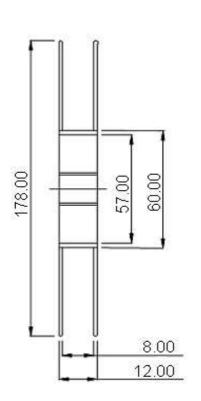


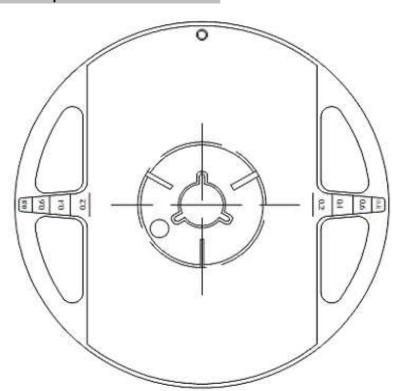


Packing Specifications



Reel Specifications





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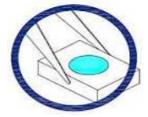




Handling Precautions

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.



1Watt 3,5x3,5mm LED White

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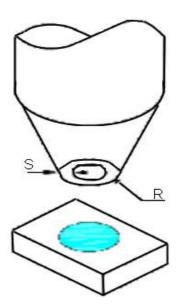






Handling Precautions

- 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.



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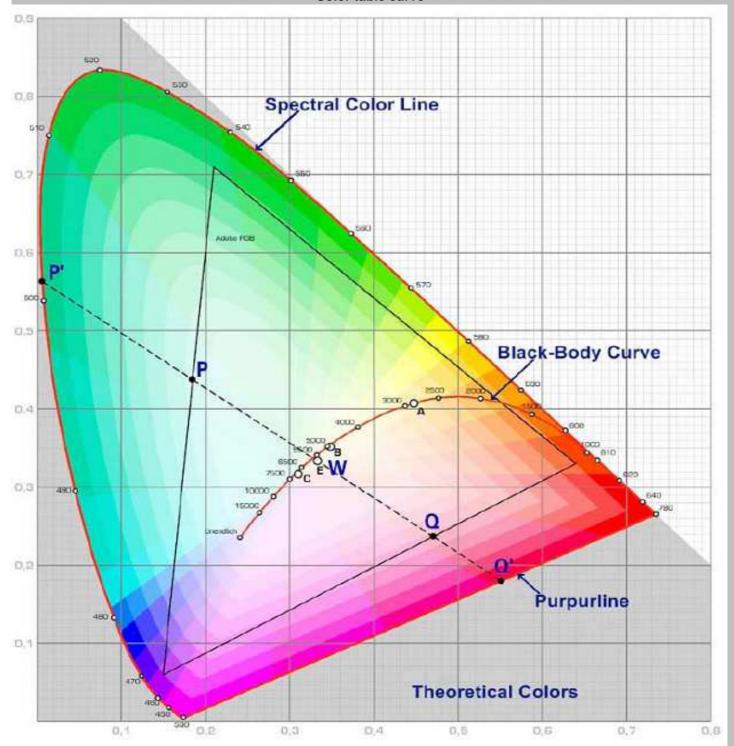








Color table curve



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