



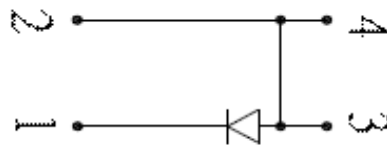
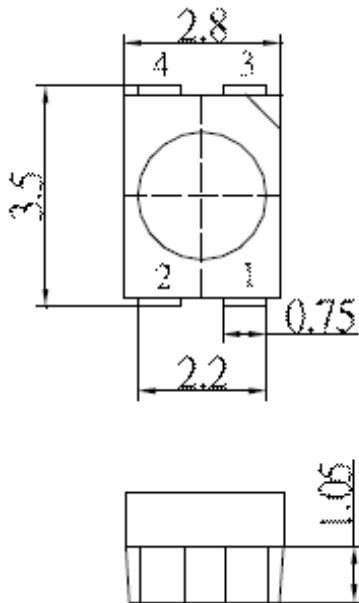
Applications

Automotive Dashboard Lighting
Money Detector
Back Lighting
Other Lighting

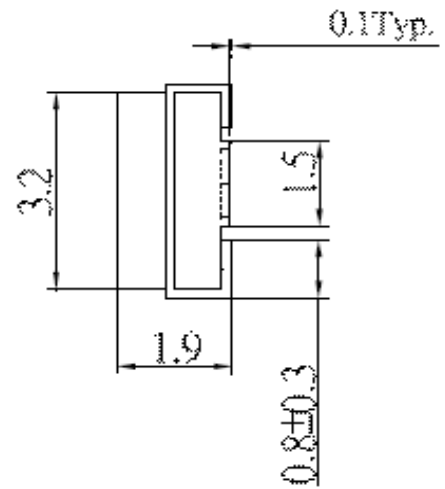
Features

High Luminous PLCC2 TOP LED
3,5x2,8x1,9mm Standard Directivity
Superior Weather-resistance
UV Resistant Silicon
Water Clear Type

Technical Drawing

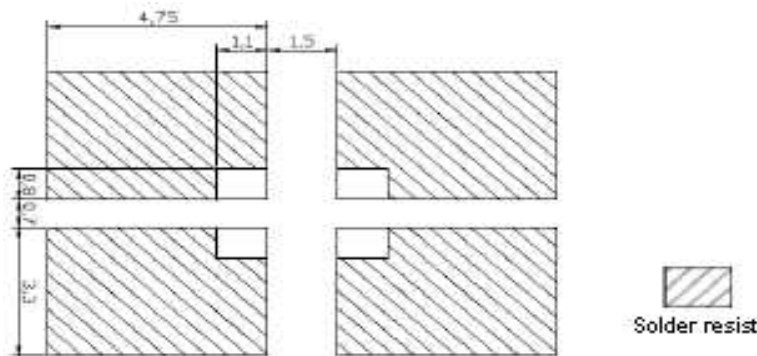


1. Cathode
2,3,4. Anode
Unit:mm
Tolerance:±0.30mm



Recommended Soldering Pattern

It's not recommended this area has any print

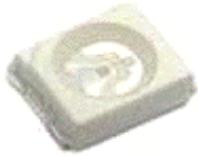


Notes :

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

SMT Top View LED Infrared	
Part No.:	M12B2001
Customer:	

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**Absolute Maximum Ratings Ta=25°C**

Item	Symbol	Value	Unit
DC Forward Current	I_F	70	mA
Pulse Forward Current	I_{fp}	700	mA
Reverse Voltage	V_r	5	V
Power Dissipation	P_d	126	mW
Operating Voltage	T_{opr}	. -30 ~ +85	°C
Storage Temperature	T_{stg}	. -40 ~ +100	°C

Pulse width max. 10ms

Duty ration max. 1/10

Electrcal / Optical Characteristics IF=5mA Ta=25°C

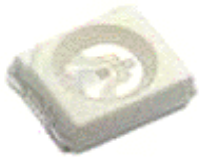
Item	Symbol	Condition	Min	Typ	Max.	Unit
DC Forward Voltage	V_f	$I_F=50mA$	--	1,6	1,8	V
DC Reverse Voltage	IR	$V_R=5V$	--	--	10	μA
Peak Wavelength		$I_F=50mA$	--	850	--	nm
Radiant Wavelength	I_e	$I_F=50mA$	15	20	--	mw/Sr
50% Power Angle		$I_F=50mA$	--	120	--	deg

Tolerance of peak wavelength is $\pm 1nm$ Tolerance of Radiant Power is $\pm 15\%$ **SMT Top View LED
UltraViolet**Part No.: **M12B2001**

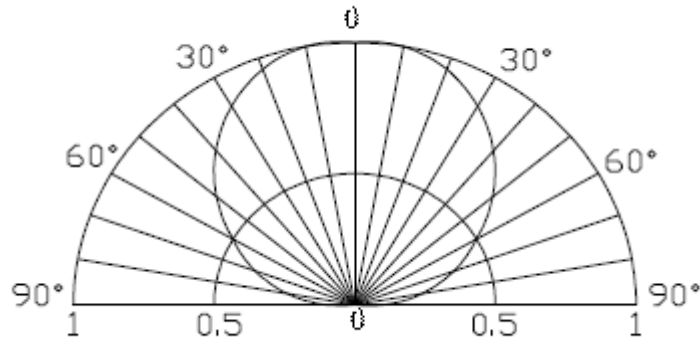
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Directive Characteristics

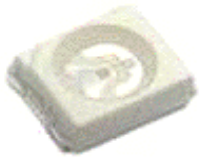


**SMT Top View LED
UltraViolett**

Part No.: **M12B2001**

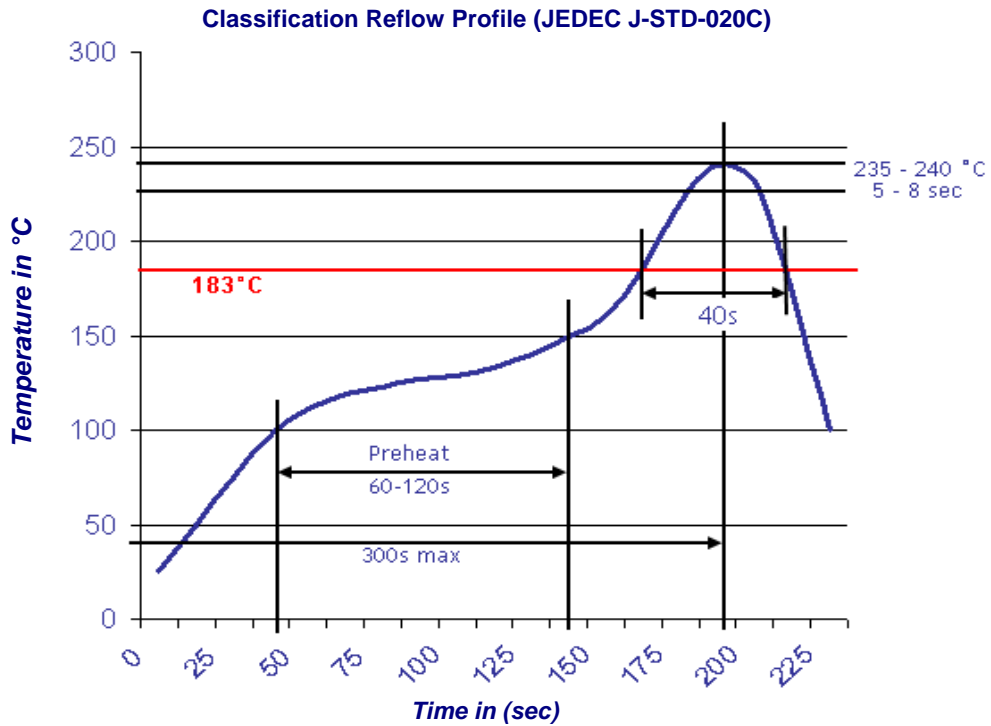
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Solder Condition

Lead Free Solder

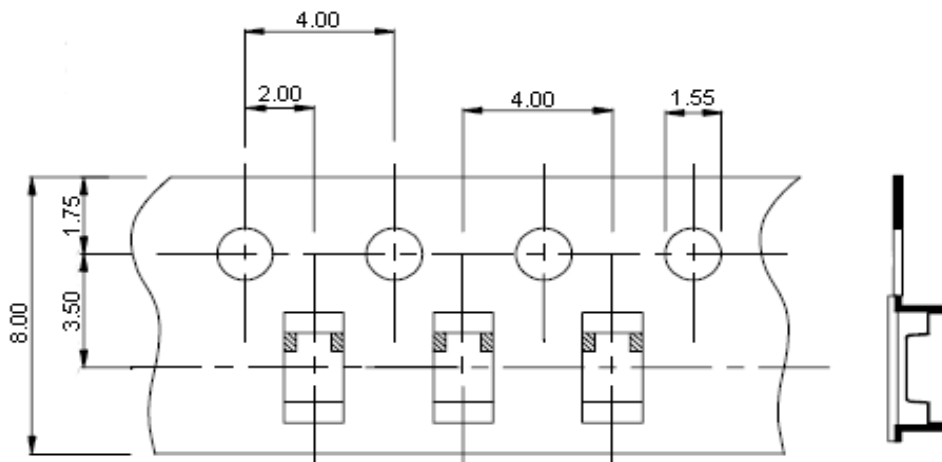


SMT Top View LED UltraViolet	
Part No.:	M12B2001
Customer:	

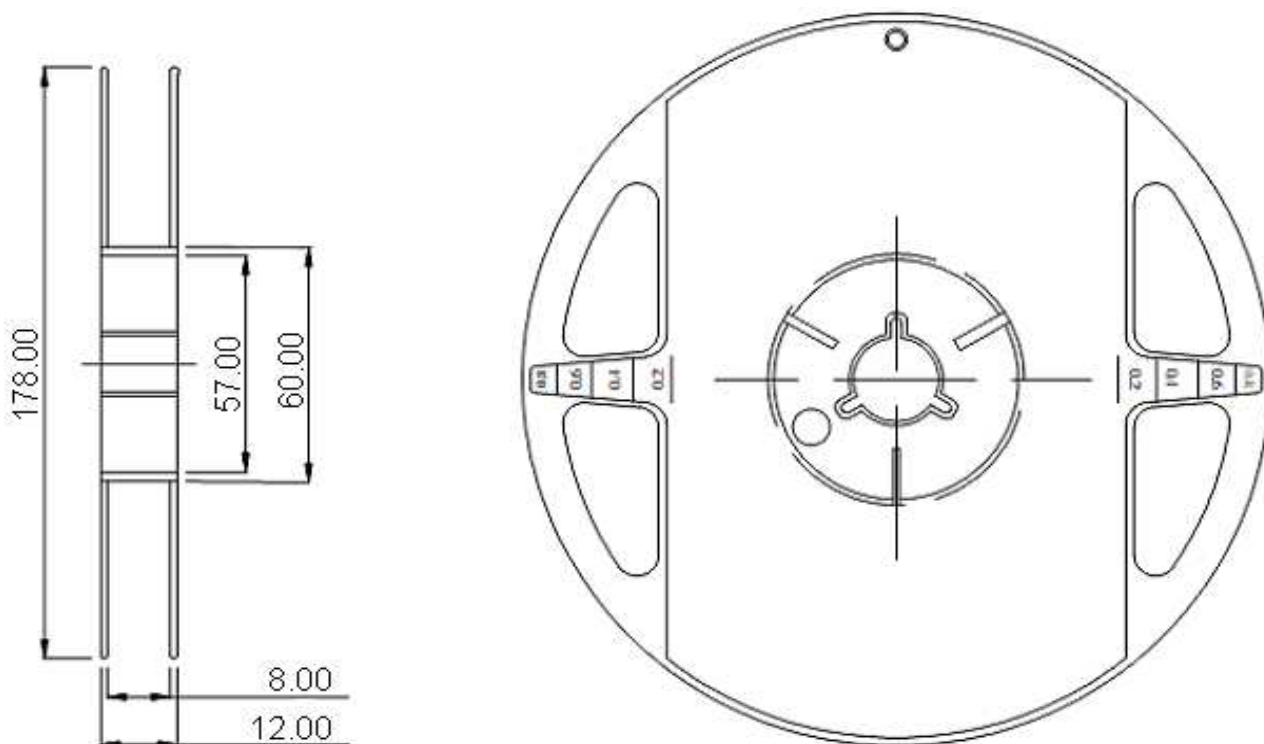
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Packing Specifications



Reel Specifications

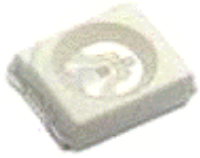


**SMT Top View LED
 UltraViolet**

Part No.: **M12B2001**

Customer:

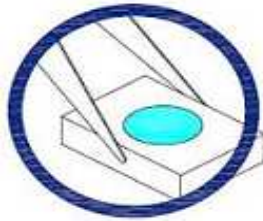
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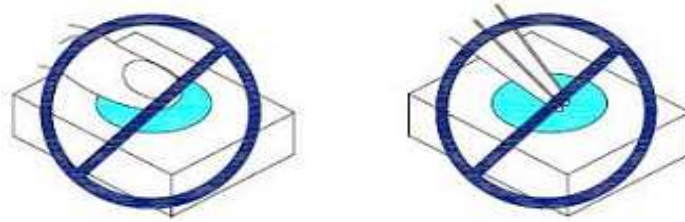
Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its 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 lead to damage and premature failure of the 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 surface. 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.



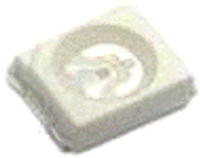
SMT Top View LED UltraViolet

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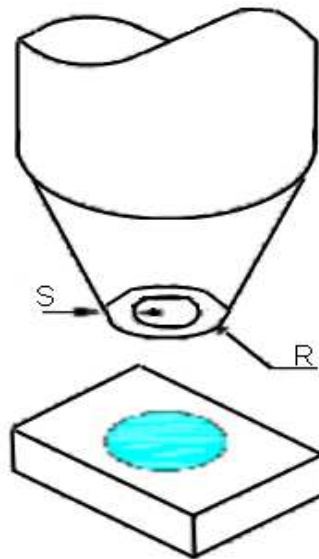
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4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
5. A pliable material is suggested for the nozzle tip to avoid scratching 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.

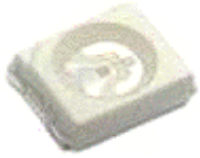


**SMT Top View LED
UltraViolet**

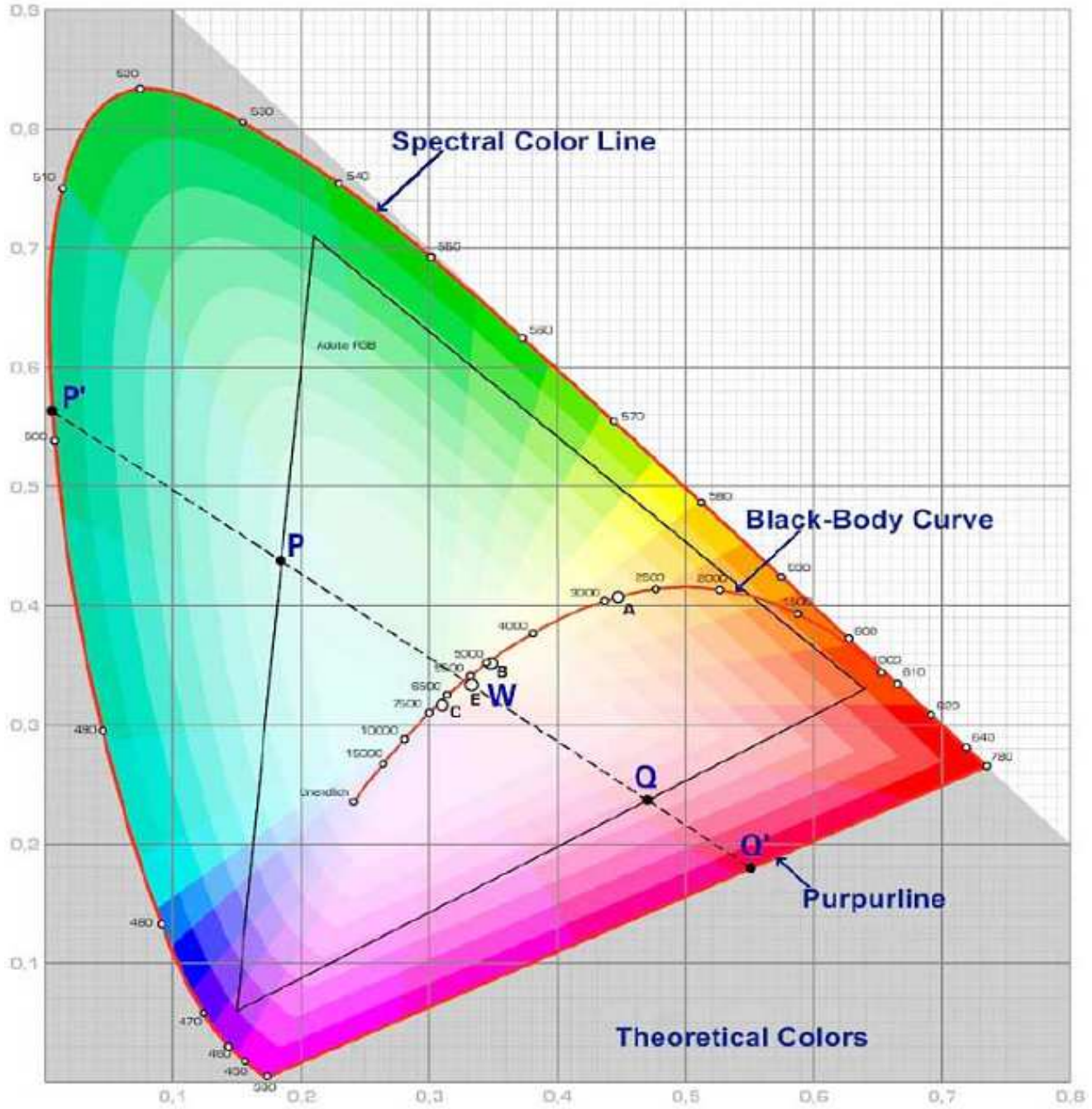
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Color table curve



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