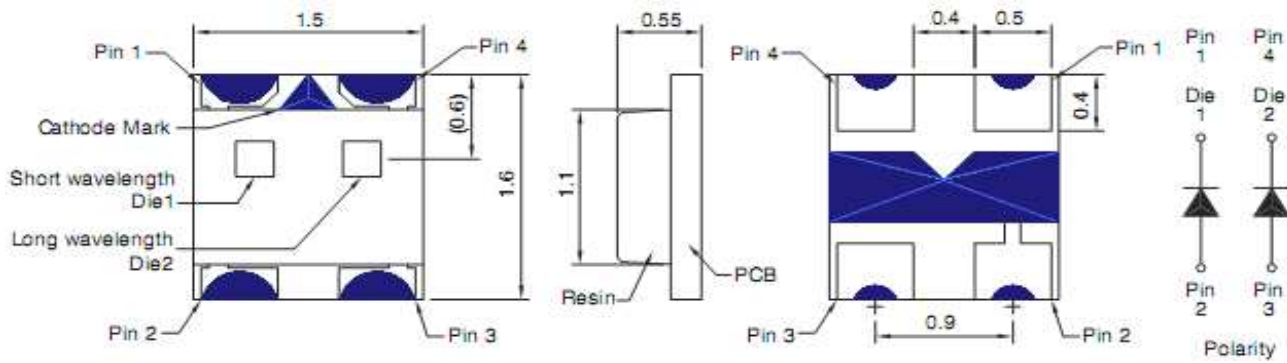


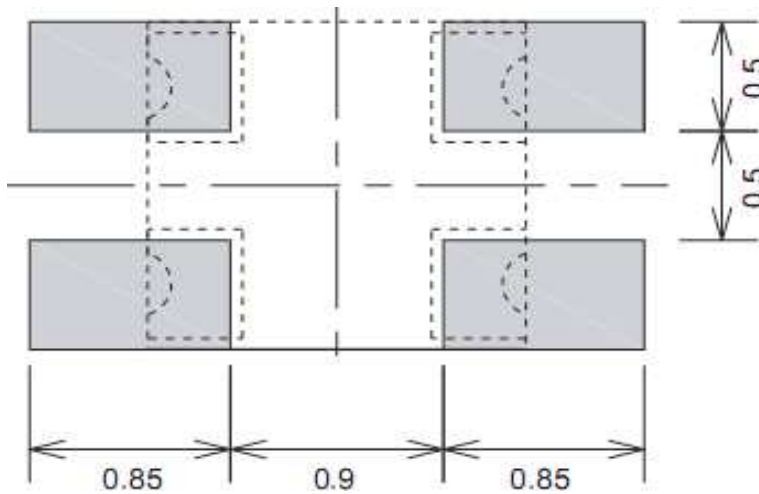
**Applications**

- Interior automotive lighting
- Optical indicators
- Communication Products
- Backlighting
- Toys

**Technical Drawing**



**Recommended Soldering Pattern**

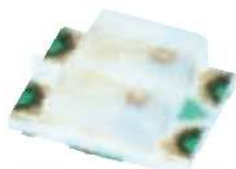


**Notes :**

All dimensions in mm tolerance is  
 $\pm 0.1\text{mm}$  unless otherwise noted.

<b>SMT Top View LED</b>	
<b>Red</b>	<b>White</b>
Part No.:	<b>M11B3005</b>
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.05.2010
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**Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	Red	White	Unit
Power Dissipation	P <sub>D</sub>	70	90	mW
DC Forward Current	I <sub>F</sub>	30	30	mA
Plused Forward Current	I <sub>FP</sub> *	70	100	mA
Reverse Voltage	V <sub>R</sub>	5		V
Operating Temperature	T <sub>OP</sub>	-30°C ~ 85°C		°C
Storage Temperature	T <sub>ST</sub>	-40°C ~ 90°C		°C

\* 0.1 msec pulse, 10% duty cycle

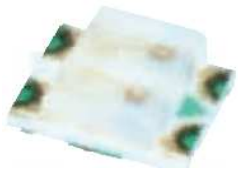
**Electrcal / Optical Characteristics**

I<sub>F</sub>=20mA

Ermitting Color Material	Red		White	
		---		---
Forward Voltage	typ.	---	---	V <sub>F</sub>
	max.	2.6	3.6	V <sub>F</sub>
Wavelength typ.	λD	624	x = 0.42 y = 0.43	nm
	λP	630	---	nm
	Δλ	20	---	nm
Color Temperature	min.	---	---	K
	max.	---	---	K
Luminous Intensity *	min.	---	---	mcd
	typ.	100	400	mcd
Reverse Current	max.	10		μA
Viewing Angle	2Θ1/2	120		

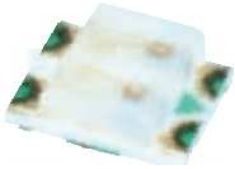
\* Per NIST standards

<b>SMT Top View LED</b>	
<b>Red</b>	<b>White</b>
Part No.:	<b>M11B3005</b>
Customer:	



**Directive Characteristics**

<b><i>SMT Top View LED</i></b> <b><i>Red</i></b> <b><i>White</i></b>	
Part No.:	<b>M11B3005</b>
Customer:	



**Curvs**

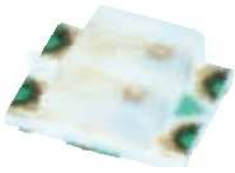
<b>SMT Top View LED</b>	
<b>Red</b>	<b>White</b>
Part No.:	<b>M11B3005</b>
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.05.2010
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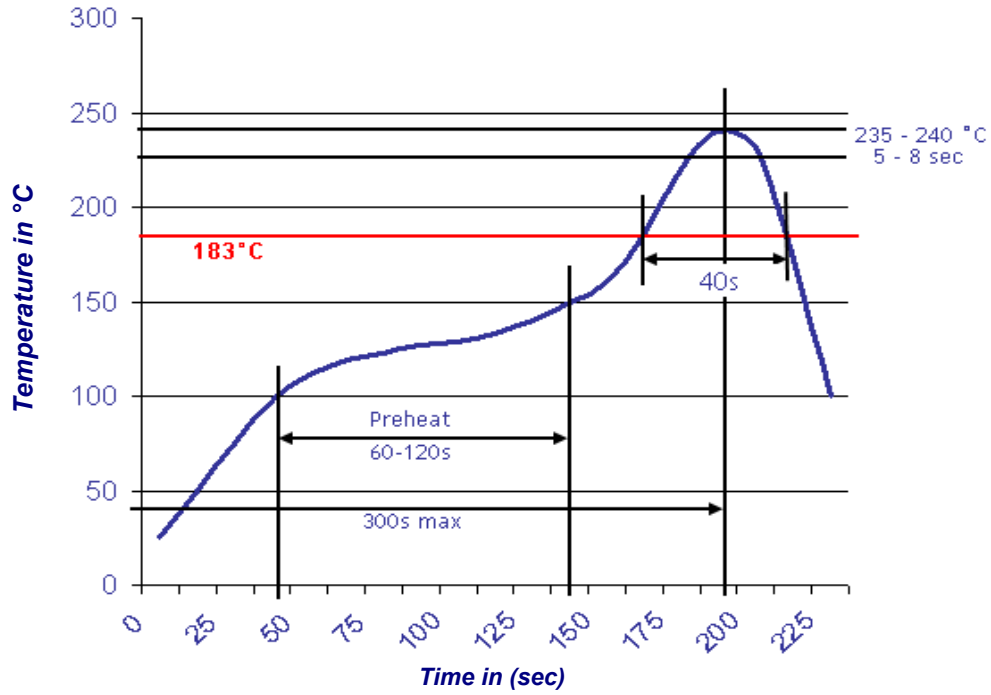
email: [info@edcon-components.com](mailto:info@edcon-components.com)



**Solder Condition**

**Lead Free Solder**

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



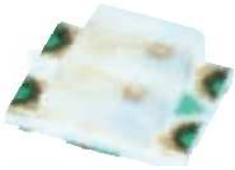
<b>SMT Top View LED</b>	
<b>Red</b>	<b>White</b>
Part No.:	<b>M11B3005</b>
Customer:	

DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.05.2010
APPD:	Ping			FINISH	Dia	Sheet	5 from 9

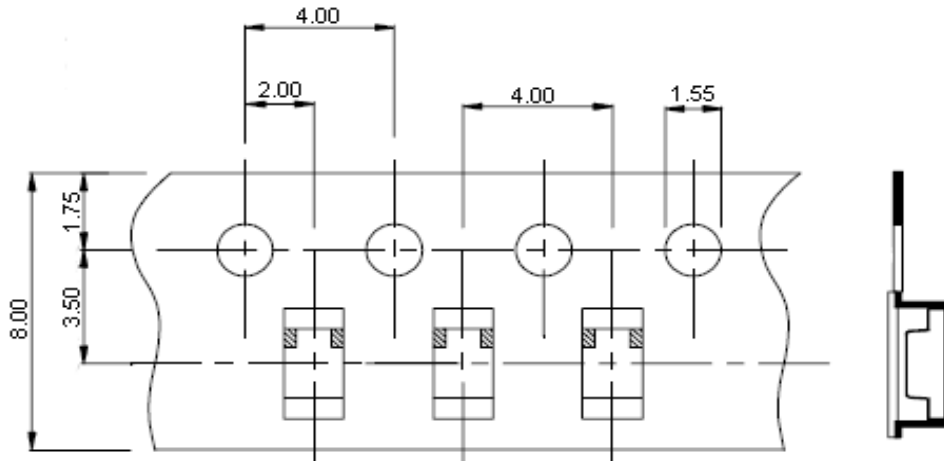
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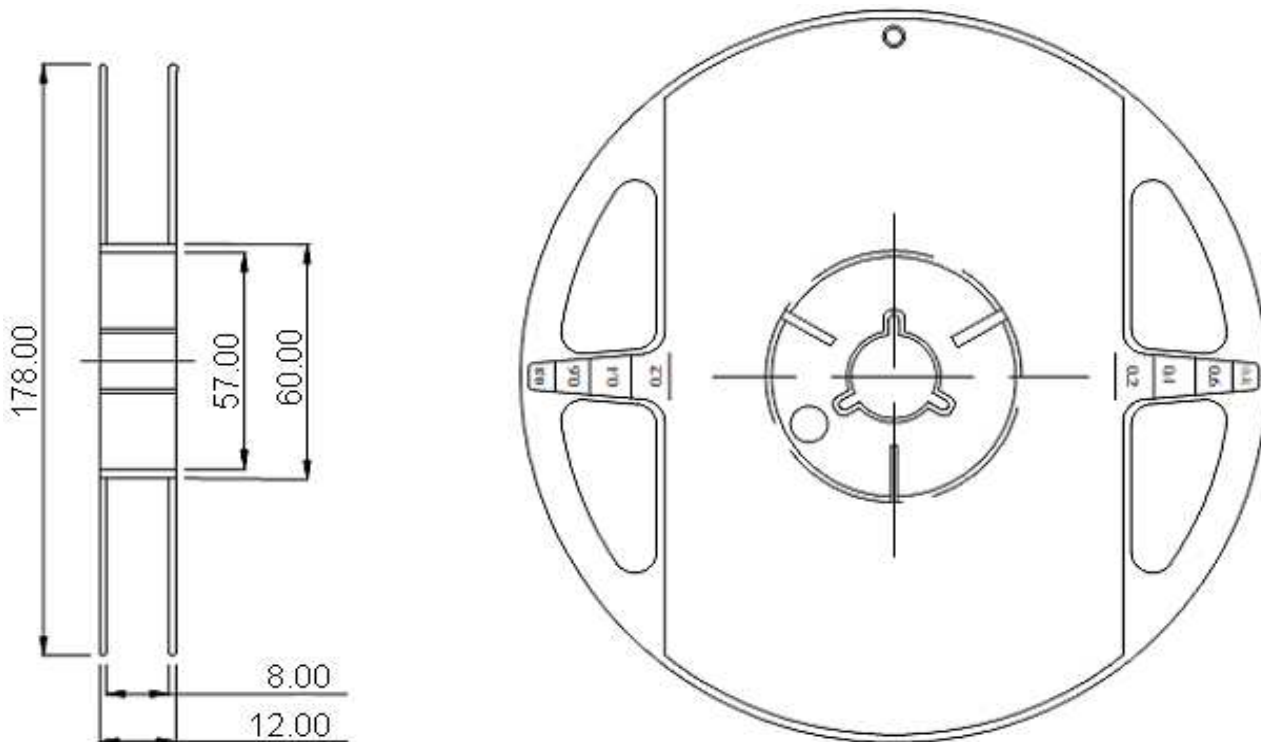
email: [info@edcon-components.com](mailto:info@edcon-components.com)



**Packing Specifications**



**Reel Specifications**



<b>SMT Top View LED</b>	
<b>Red</b>	<b>White</b>
Part No.:	<b>M11B3005</b>

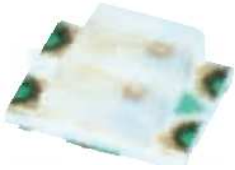
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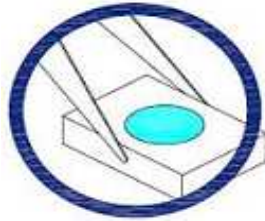
email: [info@edcon-components.com](mailto:info@edcon-components.com)



### 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**

**Red**

**White**

Part No.: **M11B3005**

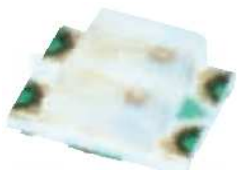
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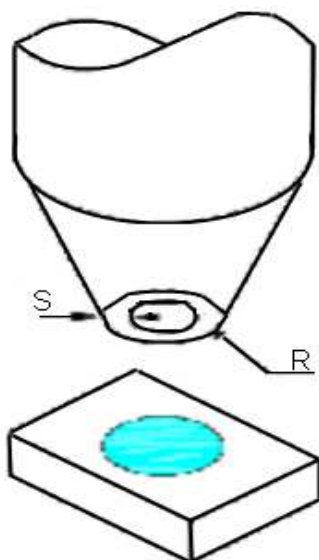
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4. The outer diameter of the TOP LED pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.
5. A pliable material is suggested for the nozzle tip to avoid scratching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

**Red**

**White**



Part No.: **M11B3005**

Customer:

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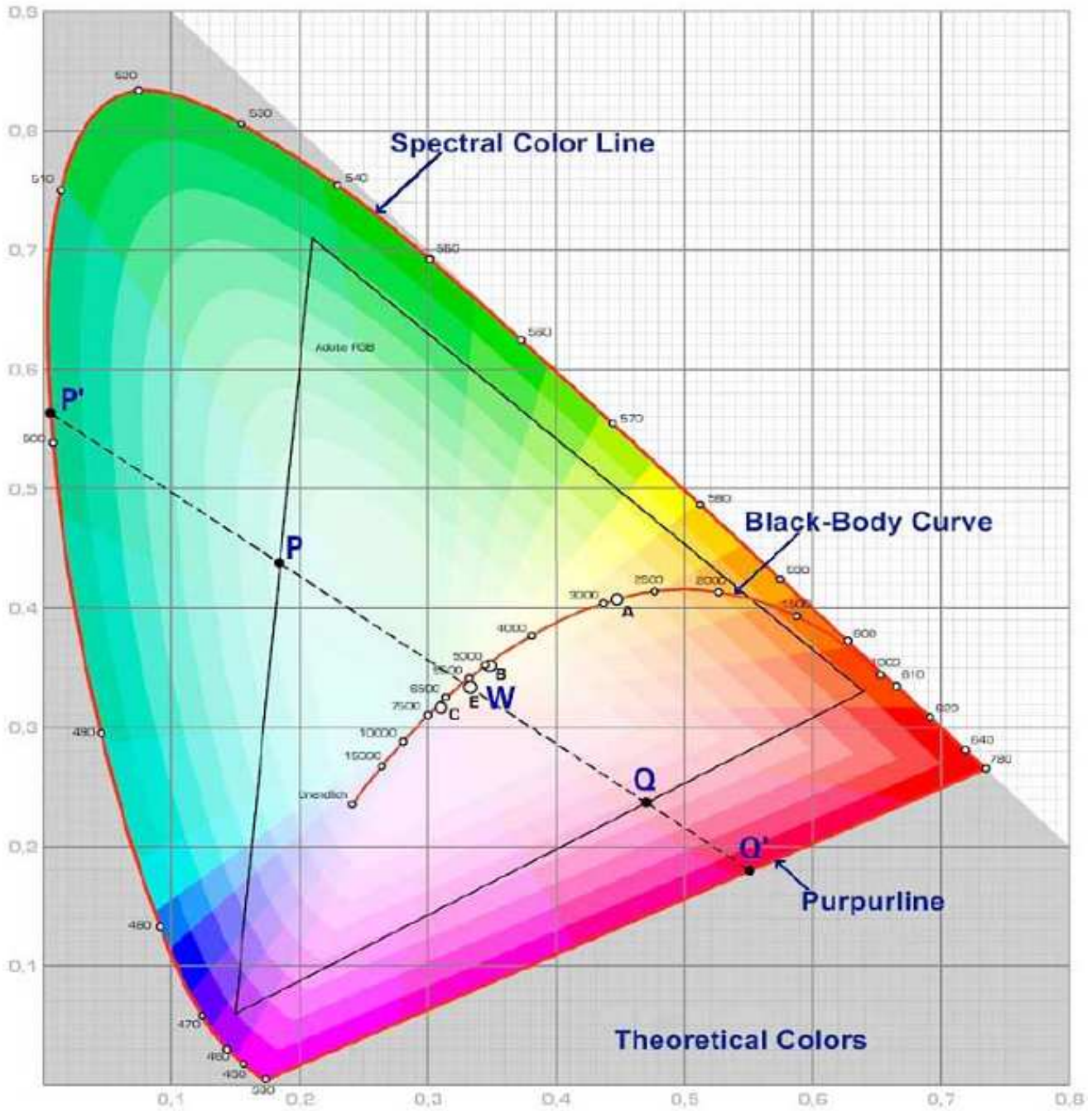
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**Color table curve**



**SMT Top View LED**  
Red White

Part No.: <b>M11B3005</b>
Customer:

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