

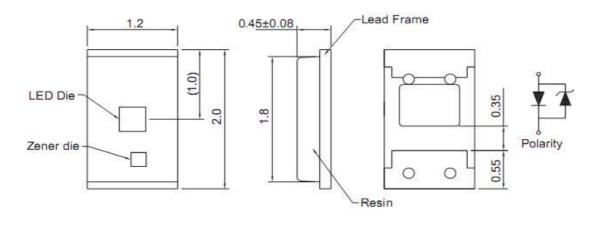


### Applications

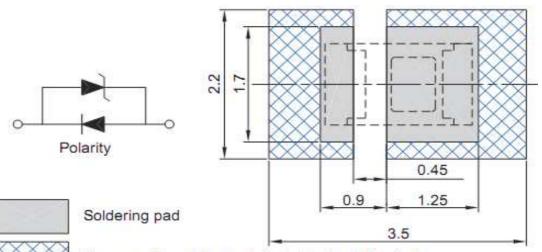
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

#### **Technical Drawing**



#### **Recommended Soldering Pattern**



Cu area with solder mask for better heat dissipation

Γ

Λ/	5	te	2	
14	υ	τε	:5	

DRW:

APPD:

All dimensions in mm tolerance is

CHKD

 $\pm$  0.1mm unless otherwise noted.

SMT Top View LED White						
	Part No.: <b>M11B5001</b>					
	Custome	er:				
MATL:	Chui DATE 03.12.200					
FINISH	Dia Sheet 1 from 9					

www.edcon-components.com

Wang

Ping

Copyright by EDCON-COMPONENTS

Wung





## **Absolute Maximum Ratings**

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	PD	72	mW
DC Forward Current	I <sub>F</sub>	30	mA
Plused Forward Current	I <sub>FP</sub> *	100	mA
Reverse Voltage	V <sub>R</sub>	5	V
Operating Temperature	T <sub>OP</sub>	-30 to 80	°C
Storage Temperature	T <sub>ST</sub>	-40 to 85	°C

\* 0.1 msec pulse, 10% duty cycle

	-						
Ermitting Color		White					
Material		InGaN					
Forward Voltage	typ.	3.4	V <sub>F</sub>				
Forward voltage	max.	3.9	V <sub>F</sub>				
Wavelength	λD	x = 0.29 y = 0.31	nm				
u u u u u u u u u u u u u u u u u u u	λP		nm				
typ.	Δλ		nm				
Color Temperature	min.		K				
Color Temperature	max.		K				
Luminous Intensity *	min.	3600	mcd				
Luminous intensity	typ.	4000	mcd				
Reverse Current	max.		μA				
Viewing Angle	2Θ1/2	120					

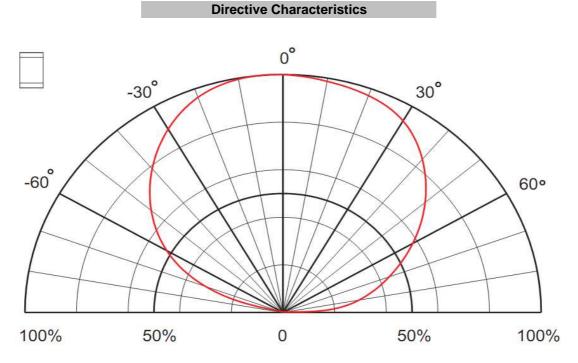
Electrcal / Optical Characteristics I<sub>F</sub>=150mA Ta=25°C

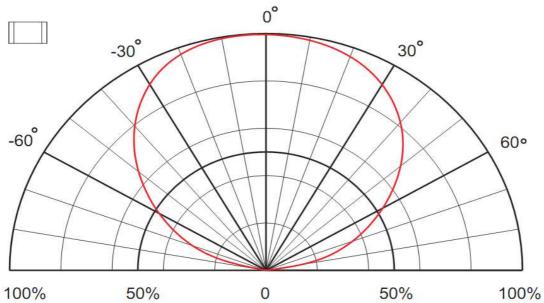
\* Per NIST standards

					SN	IT Top View L White	ED			
					Part No.: <b>M11B5001</b>					
					Customer:					
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009			
APPD:	Ping			FINISH	Dia	Sheet	2 from 9			
	Copyright by EDCON-COMPONENTS									









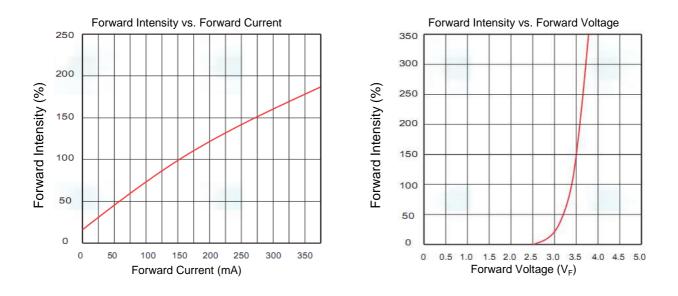
				SMT Top View LED White			LED		
					Part No.: <b>M11B5001</b>				
					Custome	er:			
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009		
APPD:	Ping			FINISH	Dia	Sheet	3 from 9		
	Copyright by EDCON-COMPONENTS								

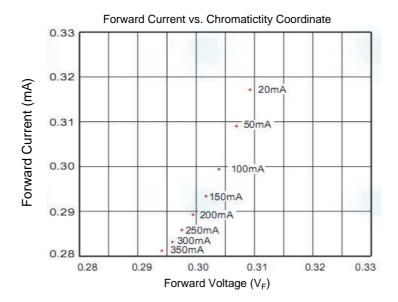
www.edcon-components.com





Curvs





	SMT Top View White				-	.ED	
					Part No.: <b>M11B5001</b>		
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	4 from 9

www.edcon-components.com

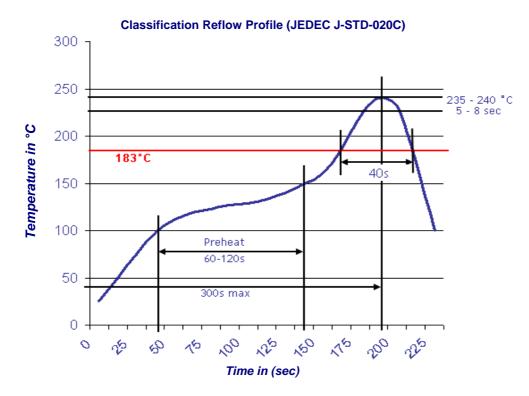
Copyright by EDCON-COMPONENTS





## **Solder Condition**

## Lead Free Solder



		SMT Top View LED White			
		Part No.: <b>M11B5001</b>			
		Custome			
Wung	MATL:	Chui	DATE	03.12.2009	
	FINISH	Dia	5 from 9		

Wang

Ping

CHKD

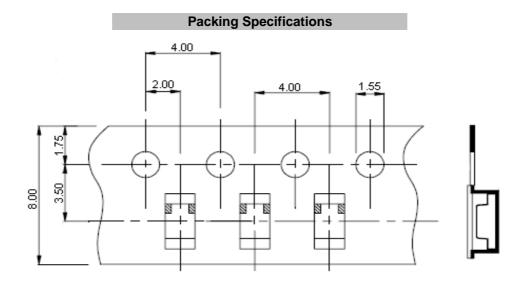
DRW:

APPD:

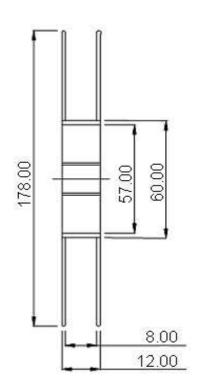
Copyright by EDCON-COMPONENTS

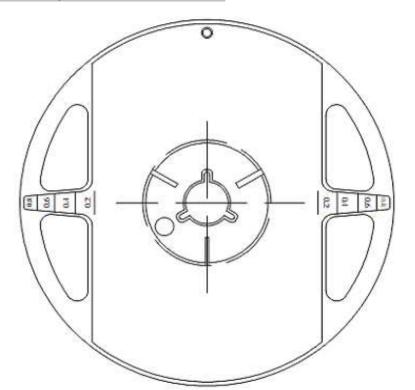






**Reel Specifications** 





					SMT Top View LED White		
					Part No.: <b>M11B5001</b>		35001
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	6 from 9

www.edcon-components.com

Copyright by EDCON-COMPONENTS

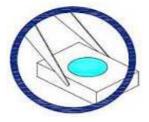




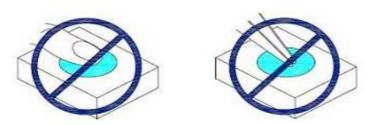
## Handling Precautions

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.



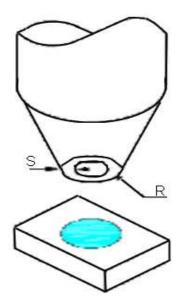
					SMT Top View LED White		
					Part No.: <b>M11B5001</b>		B5001
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	7 from 9

Copyright by EDCON-COMPONENTS





- 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 White							
	Part No.		35001					
	Custome	er:						
MATL:	Chui	DATE 03.12.200						
FINISH	Dia	Dia Sheet						

Wang

Ping

CHKD

DRW:

APPD:

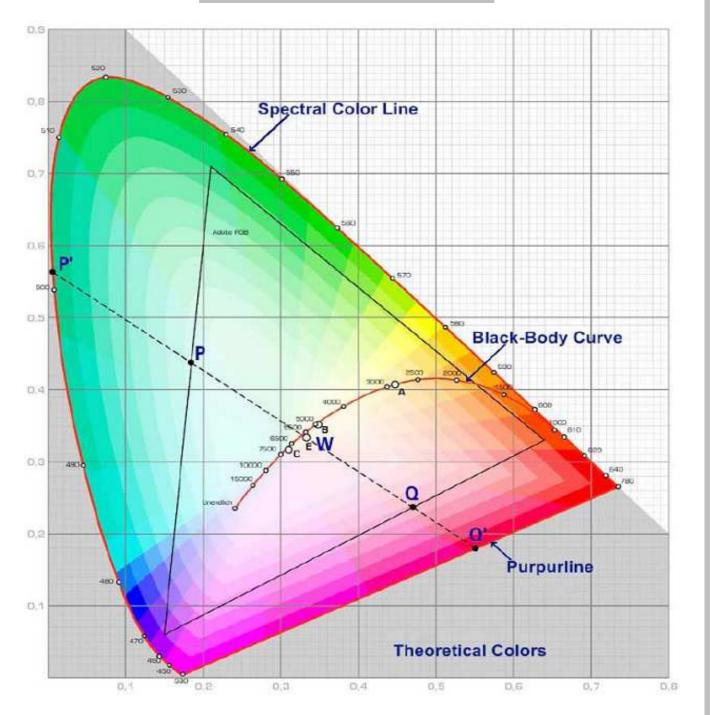
Copyright by EDCON-COMPONENTS

Wung





Color table curve



					SMT Top View LED White		
					Part No.: <b>M11B5001</b>		B5001
					Customer:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	9 from 9

www.edcon-components.com

Copyright by EDCON-COMPONENTS