

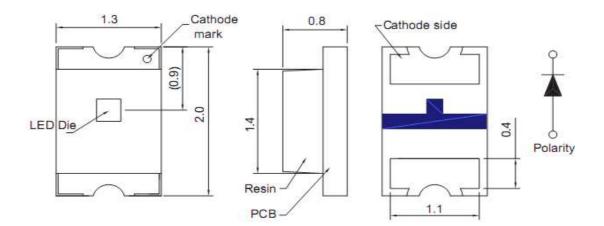


Applications

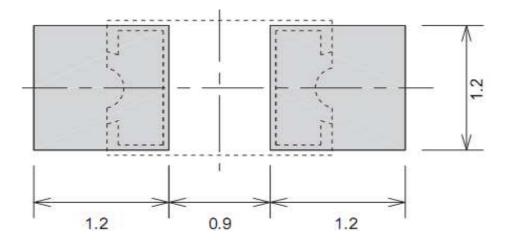
Interior automotive lighting

 Optical indicators
 Communication Products
 Backlighting
 Toys

Technical Drawing



Recommended Soldering Pattern



<i>Notes :</i> All dimensions in mm tolerance is ± 0.1mm unless otherwise noted.					SMT Top View LED Blue			
					Part No.	.: M11I	36013	
					Custome	er:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
APPD:	Ping			FINISH	Dia	Sheet	1 from 9	

www.edcon-components.com

Copyright by EDCON-COMPONENTS





Absolute Maximum Ratings

Ta=25°C

Item	Symbol	InGaN	Unit
Power Dissipation	PD	78	mW
DC Forward Current	I _F	20	mA
Plused Forward Current	I _{FP} *	80	mA
Reverse Voltage	V _R	5	V
Operating Temperature	T _{OP}	-30 to 80	°C
Storage Temperature	T _{ST}	-40 to 85	°C

* 0.1 msec pulse, 10% duty cycle

Electrcal / Optical Characteristics

I_F=5mA Ta=25°C

Ermitting Color	Blue					
Material	InGaN					
Forward Voltage	typ.	2.8	V _F			
Torward Voltage	max.	3.15	V _F			
Wavelength	λD	472	nm			
-	λP	470	nm			
typ.	Δλ	40	nm			
Color Temperature	min.		K			
Color remperature	max.		K			
Luminous Intensity *	min.	9	mcd			
Lumnous intensity	typ.	25	mcd			
Reverse Current	max.		μA			
Viewing Angle	2Θ1/2	140				

* Per NIST standards

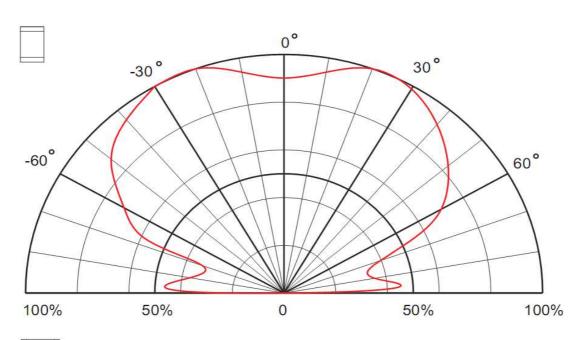
					SMT Top View LED Blue		
					Part No.: M11B6013		36013
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	2 from 9
			Convright by F		NENTS		

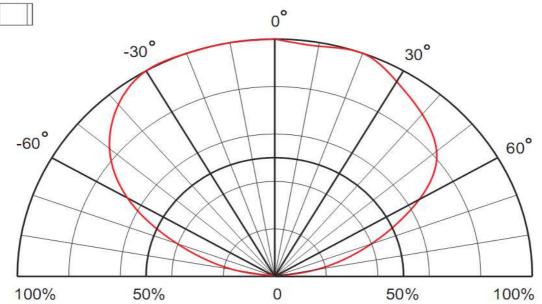
pyright by EDCON-COMPONENTS





Directive Characteristics





					SMT Top View LED Blue			
					Part No.: M11B6013		B6013	
					Custome	er:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
APPD:	Ping			FINISH	Dia	Sheet	3 from 9	
Copyright by EDCON-COMPONENTS								

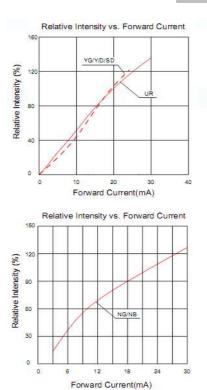
www.edcon-components.com

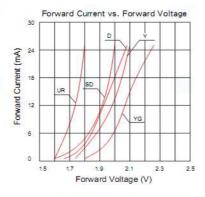
email: info@edcon_c

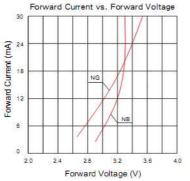


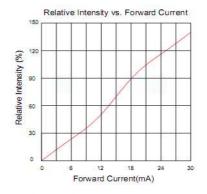


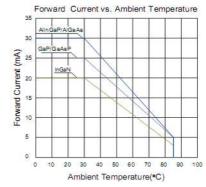
Curvs

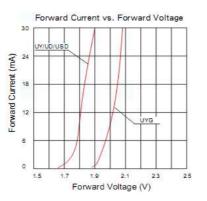












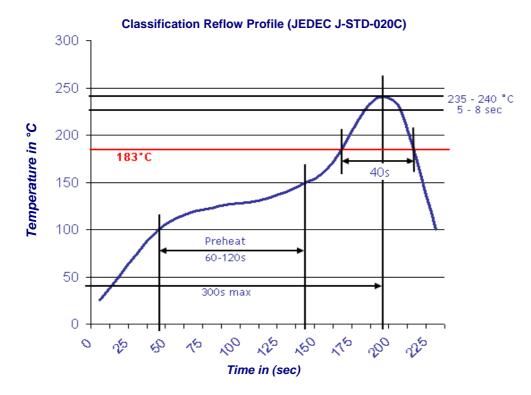
Part No.: M11B6	6013
Customer:	
DRW: Wang CHKD Wung MATL: Chui DATE	03.12.2009
APPD: Ping FINISH Dia Sheet	4 from 9





Solder Condition

Lead Free Solder



		SMT Top View LED Blue				
		Part No.: M11B6013				
		Custome	er:			
Wung	MATL:	Chui	DATE	03.12.2009		
	FINISH	Dia	Sheet	5 from 9		

Wang

Ping

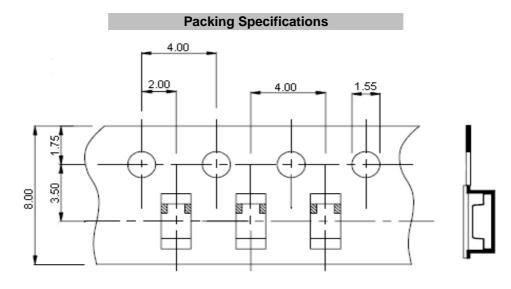
CHKD

DRW:

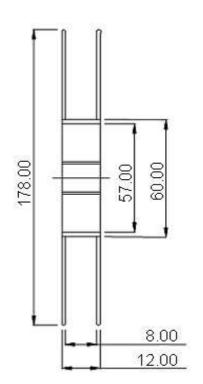
APPD:

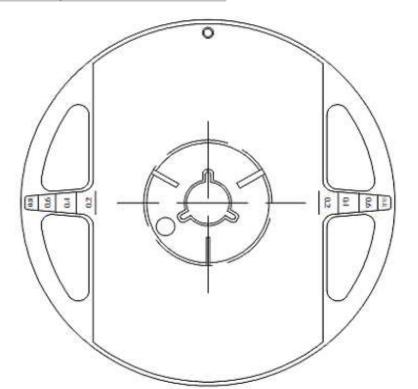






Reel Specifications





					SMT Top View LED Blue		
					Part No.: M11B6013		36013
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	6 from 9

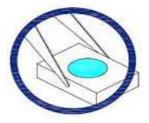




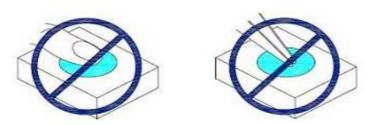
Handling Precautions

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.

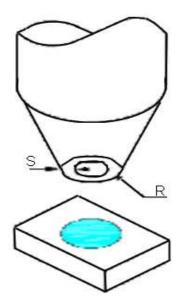


					SMT Top View LED Blue		
					Part No.	: M11B6013	
					Custome	er:	
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009
APPD:	Ping			FINISH	Dia	Sheet	7 from 9





- 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 Blue					
	Part No.	.: M11E	36013			
	Custome	er:				
MATL:	Chui	DATE	03.12.2009			
FINISH	Dia	Sheet	8 from 9			

Wang

Ping

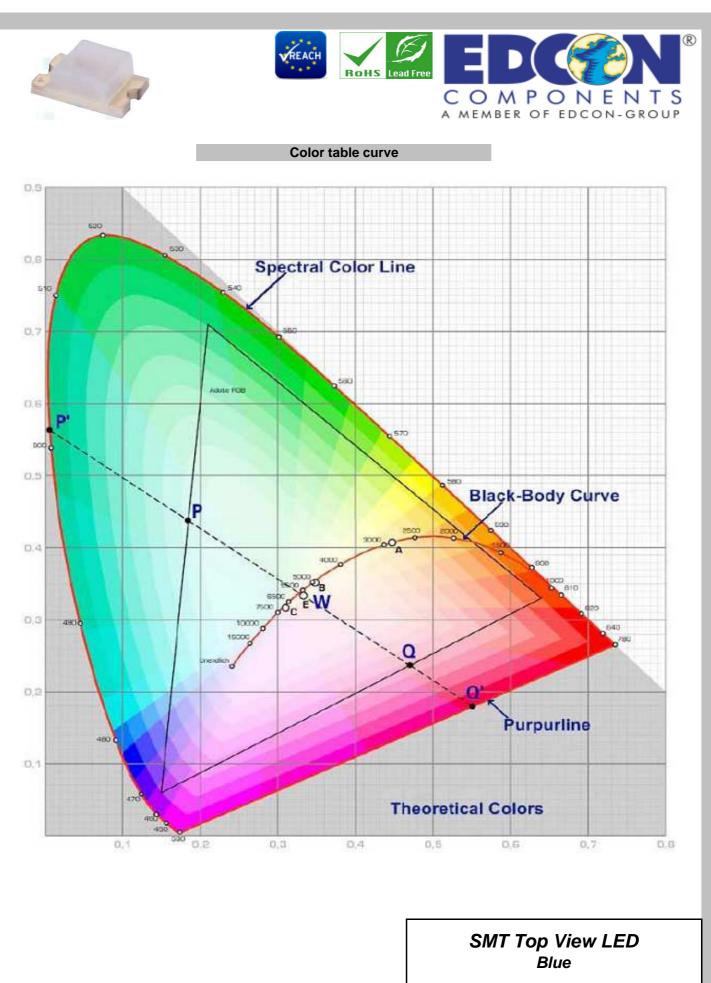
CHKD

DRW:

APPD:

FINISH Di
Copyright by EDCON-COMPONENTS

Wung



					Part No.	: M1 1	B6013	
					Custome	r:		
DRW:	Wang	CHKD	Wung	MATL:	Chui	DATE	03.12.2009	
APPD:	Ping			FINISH	Dia	Sheet	9 from 9	
Copyright by EDCON-COMPONENTS								