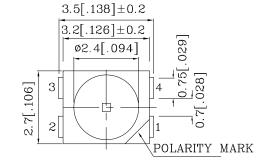


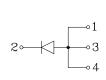
PRELIMINARY SPEC

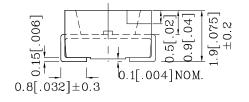
Features

- •Single color.
- $\bullet Suitable for all SMT assembly and solder process.$
- •Available on tape and reel.
- $\bullet Ideal$ for backlighting.
- •Package : 1500pcs / reel.
- •Moisture sensitivity level : level 4.
- •RoHS compliant.









Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25(0.01") unless otherwise noted.
- 3. Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		M2NW (InGaN)	Unit	
Reverse Voltage	VR	5	V	
Forward Current	IF	40	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	100	mA	
Power Dissipation	Рт	160	mW	
Operating Temperature	ТА	-40 ~ +85		
Storage Temperature	Tstg	-40 ~ +85	°C	
Electrostatic Discharge Threshold (HBM)		1000	V	

Operating Characteristics (TA=25°C)		M2NW (InGaN)	Unit
Forward Voltage (Typ.) (IF=40mA)	VF	3.4	V
Forward Voltage (Max.) (IF=40mA)	VF	4.0	V
Reverse Current (Max.) (VR=5V)	Ir	10	uA
Chromaticity Coordinates	Х	0.31	
(Typ.)	Y	0.31	
Capacitance (Typ.) (VF=0V, f=1MHz)	С	110	pF

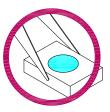
Part Number	Emitting Color	Emitting Material	Lens-color	Inter (IF=4	inous nsity l0mA) cd	Viewing Angle 2 0 1/2
				min.	typ.	
XZM2NW96W	White	InGaN	Water Clear	1800	2790	120°
Published Date : AUG 2	20, 2008	Drawing No : XD	SB1053 V3	Checked	: B.L.LIU	P. 1/6



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 leads to damage and premature failure of the LED.

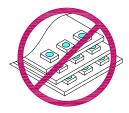
1. Handle the component along the side surfaces by using forceps or appropriate tools.



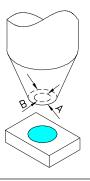
2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



- 4. The outer diameter of the SMD 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.



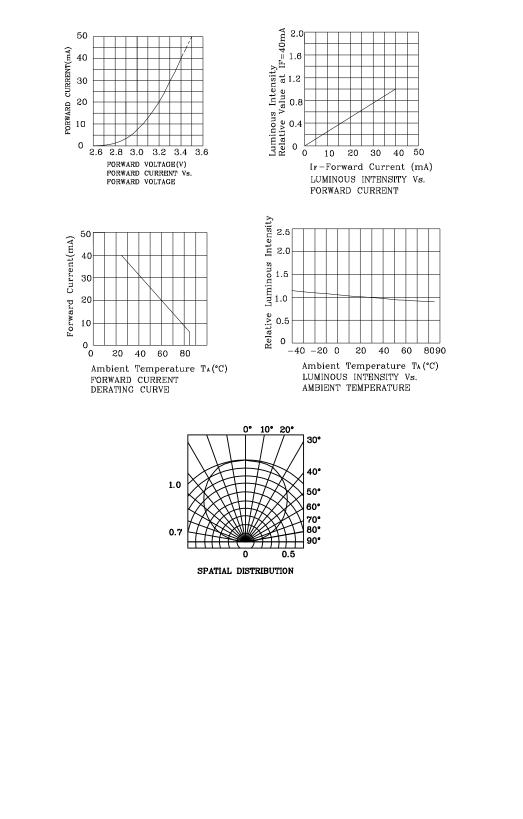
V3



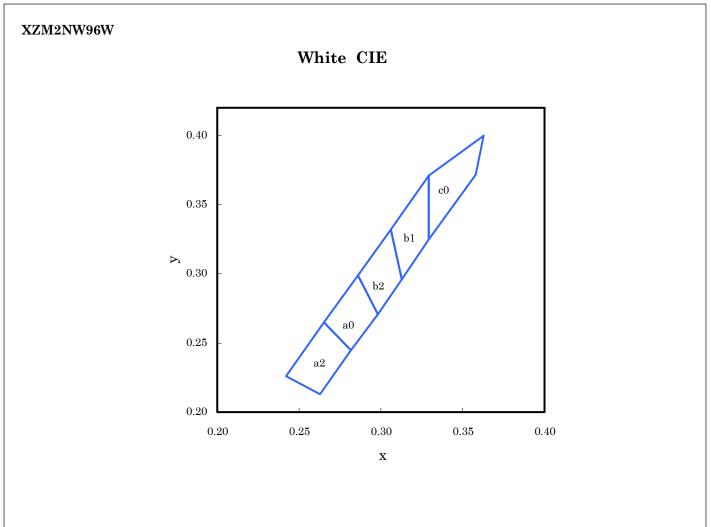
Part Number: XZM2NW96W

3.5x2.7mm SURFACE MOUNT LED LAMP

♦ M2NW







	Rank a2					
	Х	0.263	0.282	0.265	0.242	
ĺ	Y	0.213	0.245	0.265	0.226	

Rank a0					
Х	0.282	0.298	0.286	0.265	
Y	0.245	0.271	0.299	0.265	

Rank b2					
Х	0.298	0.313	0.306	0.286	
Y	0.271	0.296	0.332	0.299	

Rank c0					
Х	0.329	0.358	0.363	0.329	
Y	0.325	0.372	0.400	0.371	

Rank b1						
Х	0.313	0.329	0.329	0.306		
Y	0.296	0.325	0.371	0.332		

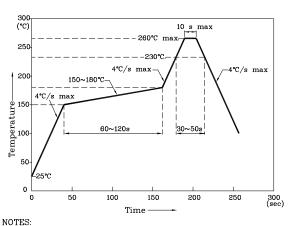
Checked : B.L.LIU

V3

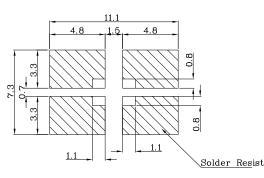


3.5x2.7mm SURFACE MOUNT LED LAMP

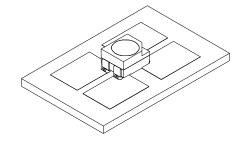
Reflow Soldering Profile For Lead-free SMT Process.



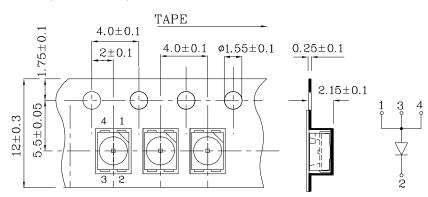
- 1. Maximum soldering temperature should not exceed 260°c.
- 2. Recommended reflow temperature: 145°c-260°c.
- $\ensuremath{\mathbf{3}}.$ Do not put stress to the epoxy resin during high
 - temperatures conditions.
- Recommended Soldering Pattern (Units : mm; Tolerance: ±0.1)



The device has a single mounting surface. The device must be mounted according to the specifications.



Tape Specification (Units : mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or chromaticity),

the typical accuracy of the sorting process is as follows:

- 1. Measurement tolerance of the chromaticity coordinates is ± 0.01 .
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

V3



Part Number: XZM2NW96W

3.5x2.7mm SURFACE MOUNT LED LAMP

