

Part Number: XZ89S1-NC22BC

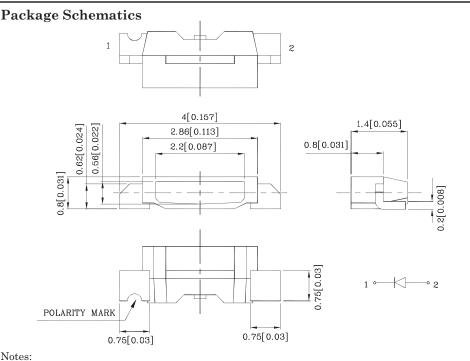
4.0x0.8mm RIGHT ANGLE SMD LED

- Ideal for area backlighting and text/icon illumination
- Winged lead frame design Robust package
- \bullet Lateral emission window: 2.2x0.56mm
- Standard Package: 2,000pcs/Reel
- MSL (Moisture Sensitivity Level): 3
- \bullet RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		M2FW (InGaN)	Unit	
Reverse Voltage	VR	5	V	
Forward Current	IF	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	100	mA	
Power Dissipation	Pd	120	mW	
Operating Temperature TA		$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-40 \sim +85$	÷C	
Electrostatic Discharge Threshold (HBM)		250	V	

Operating Characteristics (TA=25°C)		M2FW (InGaN)	Unit
Forward Voltage (Typ.) (IF=20mA)	$V_{\rm F}$	3.3	V
Forward Voltage (Max.) (IF=20mA)	$V_{\rm F}$	4.0	V
Reverse Current (Max.) (VR=5V)	IR	50	uA
Capacitance (Typ.) (VF=0V, f=1MHz)	С	100	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Lumi Inter (I _F =20 mo	nsity)mA)	Viewing Angle 2θ 1/2
				min.	typ.	
XZ89S1-NC22BC	White	InGaN	Water Clear	1400	1690	120°

XDSB6459 V2 Layout: Maggie L.



Handling Precautions

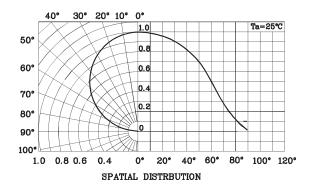
Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

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

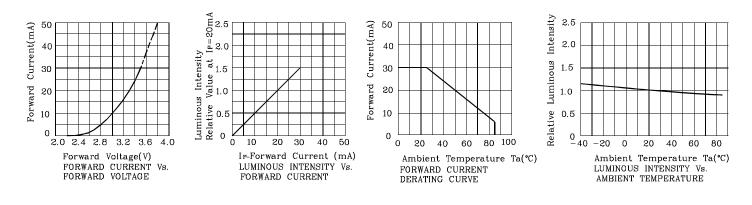


2. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.



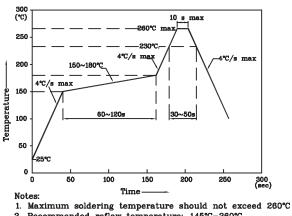


♦ M2FW



LED is recommended for reflow soldering and soldering profile is shown below.

Reflow Soldering Profile for SMD Products (Pb-Free Components)

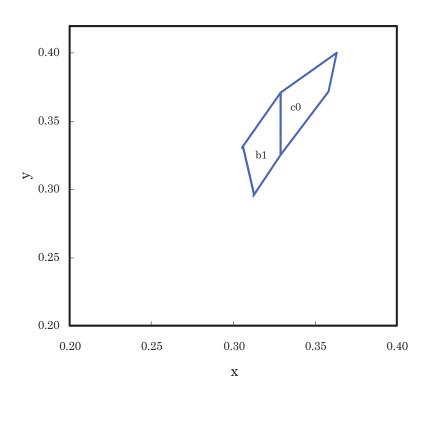


2. Recommended reflow temperature: 145°C-260°C

3. Do not put stress to the epoxy resin during high temperatures conditions



XZ89S1-NC22BC



White CIE

	0.313	0.296	-0	0.329	0.325	
b1	0.329	0.325		0.358	0.372	
01	0.329	0.371	c0	0.363	0.400	
	0.306	0.332			0.329	0.371

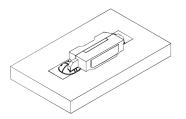
Notes:

Shipment may contain more than one chromaticity regions.

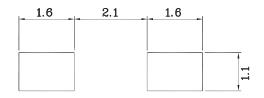
Orders for single chromaticity region are generally not accepted. Measurement tolerance of the chromaticity coordinates is ± 0.01 .



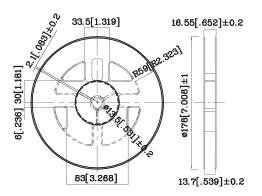
The device has a single mounting surface. The device must be mounted according to the specifications.



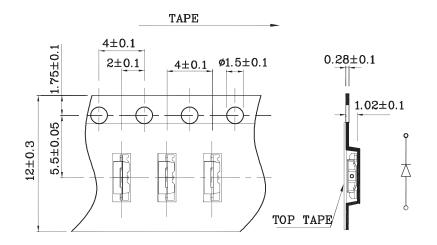
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension



Tape Specification (Units : mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux), the typical accuracy of the sorting process is as follows:

1. Luminous Intensity/ Luminous Flux: +/-15%

2. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS

