

Part Number: XZFBB67S

4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED LAMP

Features

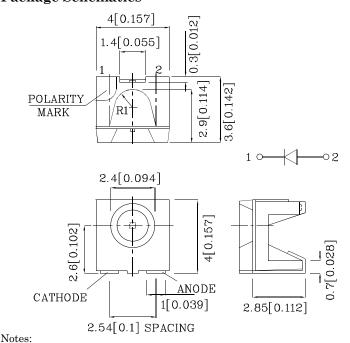
- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package : 500pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES





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 (T _A =25°C)	FBB (InGaN)	Unit		
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	100	mA	
Power Dissipation	P_{D}	120	mW	
Operating Temperature	$T_{\rm A}$	$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-40 \sim +85$		
Electrostatic Discharge Threshold (HBM)		250	V	

Operating Characteristics (T _A =25°C)		FBB (InGaN)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	3.3	V
Forward Voltage (Max.) (I _F =20mA)	V_{F}	4	V
Reverse Current (Max.) (V _R =5V)	I_R	50	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λP	465	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λD	470	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle\lambda$	22	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	100	pF

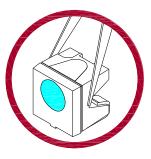
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZFBB67S	Blue	InGaN	Water Clear	300	447	465	120°



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.



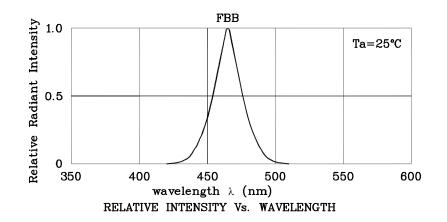


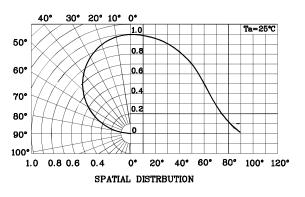
3. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.



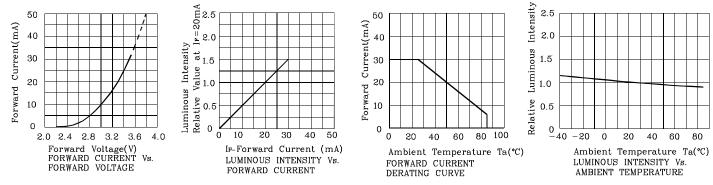
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4.0x4.0mm RIGHT ANGLE SURFACE MOUNT LED



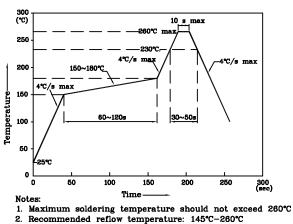


FBB



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

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

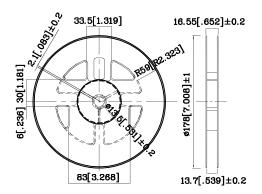


high temperatures conditions

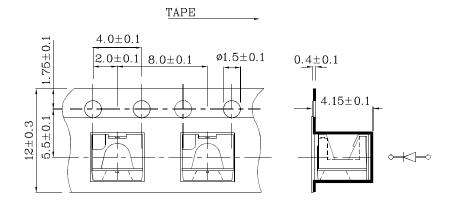


✤ The device has a single mounting surface. The device must be mounted according to the specifications.

Reel Dimension



Tape Specification (Units : mm)



Remarks:

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

1. Wavelength: +/-1nm

2. Luminous intensity / luminous flux: +/-15%

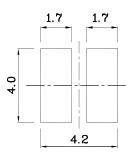
3. Forward Voltage: +/-0.1V $\,$

Note: Accuracy may depend on the sorting parameters.

Apr 02,2011

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

LAMP



XDSB5024 V2 Layout: Maggie L.



PACKING & LABEL SPECIFICATIONS

