

### Part Number: ZFBB79W

3.8x2.0mm DOME LENS SMD CHIP LED LAMP

**→** 2

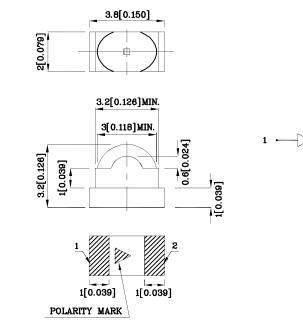
### Features

- $\bullet$  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





## Package Schematics



Notes: 1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.2(0.008")$  unless otherwise noted.

3. Specifications are subject to change without notice.

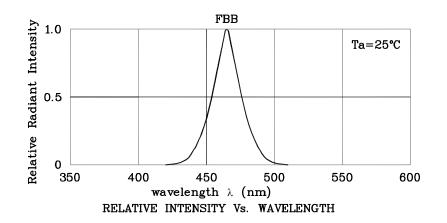
Absolute Maximum Ratings (T <sub>A</sub> =25°C)		FBB (InGaN)	Unit	
Reverse Voltage		5	V	
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	100	mA	
Power Dissipation	$P_{D}$	120	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature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

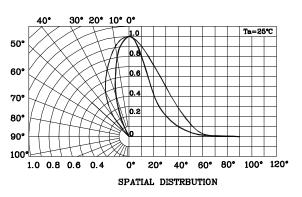
Operating Characteristics (T <sub>A</sub> =25°C)		FBB (InGaN)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	3.3	V
Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	4	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	50	uA
Wavelength of Peak Emission (Typ.) (I <sub>F</sub> =20mA)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

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I <sub>F</sub> =20mA) mcd		Wavelength nm λP	Viewing Angle 20 1/2
				min.	typ.		
ZFBB79W	Blue	InGaN	Water Clear	600	795	465	60°(H) 35°(V)
Apr 13,2011					SDSA80	96 V1 Layout:	Maggie L.

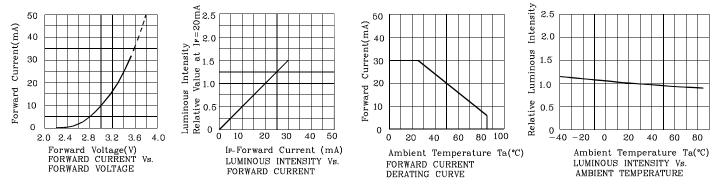
This datasheet has been downloaded from http://www.digchip.com at this page





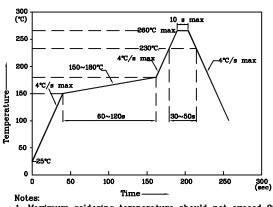


FBB



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

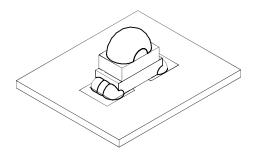
Reflow Soldering Profile for SMD Products (Pb-Free Components)



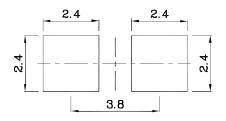
- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C 3. Do not put stress to the epoxy resin during
- high temperatures conditions



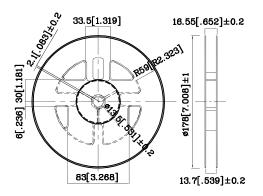
The device has a single mounting surface. The device must be mounted according to the specifications.



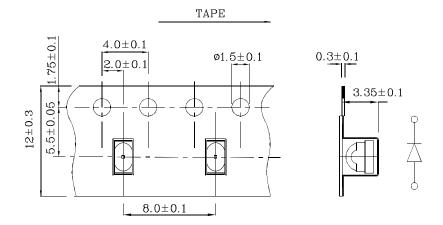
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension



### Tape Specification (Units : mm)



Remarks:

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



### PACKING & LABEL SPECIFICATIONS

