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Part Number: XZBB87W

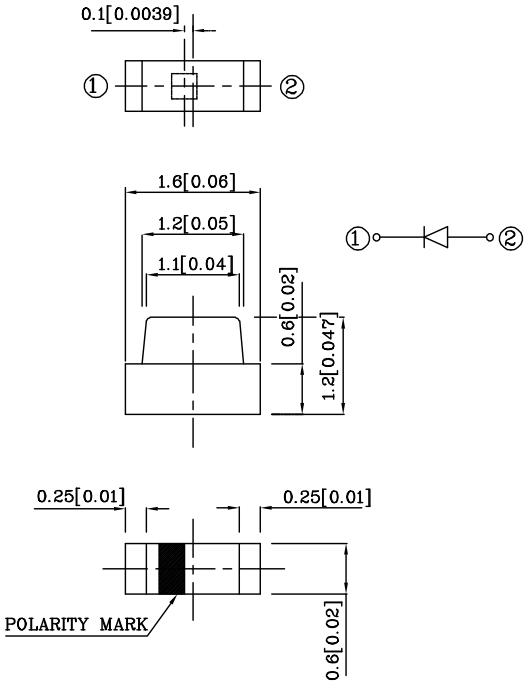
1. 6x0. 6mm RIGHT ANGLE SMD CHIP LED LAMP

PRELIMINARY SPEC

Features

- 1.6mmx0.6mm RIGHT ANGLE SMT LED, 1.2mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- ELECTROSTATIC DISCHARGE THRESHOLD (HBM) : 0-1999V.
- RoHS COMPLIANT.

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



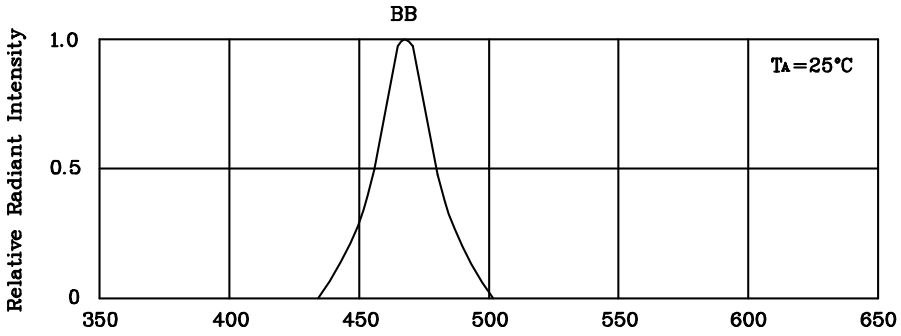
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.1(0.004") unless otherwise noted.

Absolute Maximum Ratings (T_A=25°C)		**BB (InGaN)**	**Unit**
Reverse Voltage	V_R	5	V
Forward Current	I_F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	160	mA
Power Dissipation	P_T	102	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

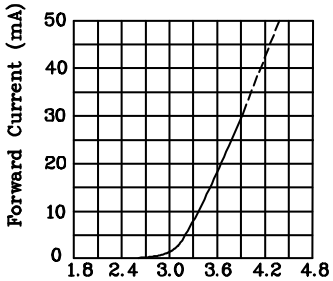
Operating Characteristics (T_A=25°C)		**BB (InGaN)**	**Unit**
Forward Voltage (Typ.) (I_F=20mA)	V_F	3.65	V
Forward Voltage (Max.) (I_F=20mA)	V_F	4.2	V
Reverse Current (V_R=5V)	I_R	10	uA
Wavelength of Peak Emission (I_F=20mA)	λ P	468	nm
Wavelength of Dominant Emission (I_F=20mA)	λ D	470	nm
Spectral Line Full Width At Half-Maximum (I_F=20mA)	Δλ	25	nm
Capacitance (V_F=0V, f=1MHz)	C	65	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.		
XZBB87W	Blue	InGaN	Water Clear	36	79	468	110°

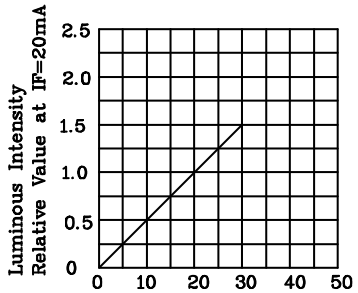


RELATIVE INTENSITY Vs. WAVELENGTH

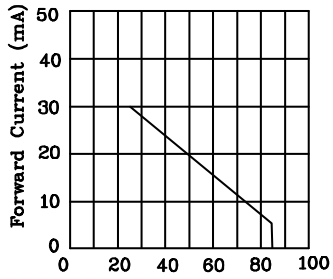
❖ **BB**



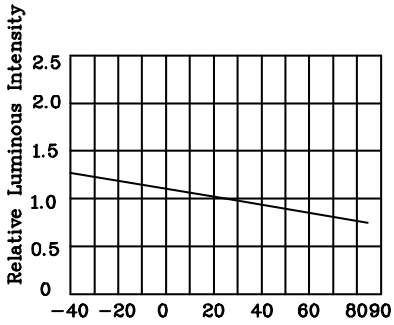
FORWARD CURRENT Vs
FORWARD VOLTAGE



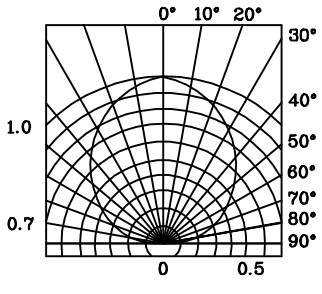
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE

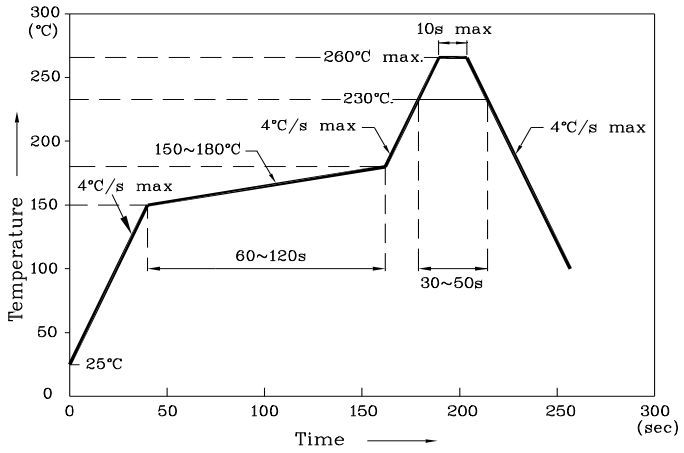


LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



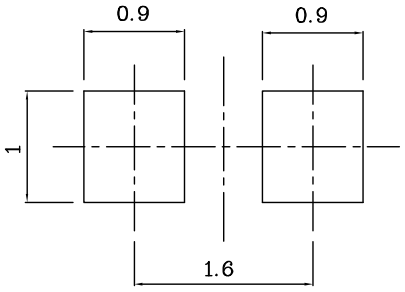
SPATIAL DISTRIBUTION

Reflow Soldering Profile For Lead-free SMT Process.

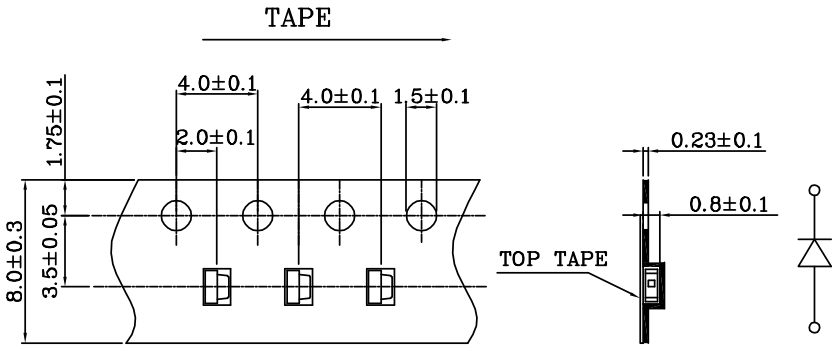


Notes:
1. Maximum soldering temperature should not exceed 260℃.
2. Recommended reflow temperature: 145℃-260℃.
3. Do not put stress to the epoxy resin during high temperatures conditions.

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



❖ Tape Specification (Units : mm)



Remarks:
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:
1. Wavelength: +/-1nm
2. Luminous Intensity: +/-15%
3. Forward Voltage: +/-0.1V
Note: Accuracy may depend on the sorting parameters.