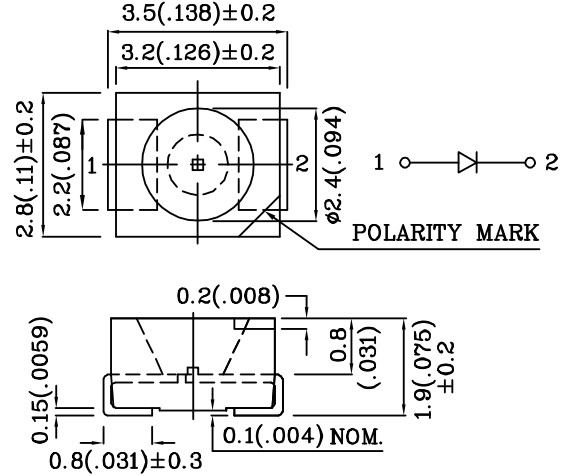


Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 1500PCS / REEL.
- Electrostatic Discharge Classification:Class 1/HBM(MIL-STD-883METHOD3015.7)
- RoHS COMPLIANT.



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE



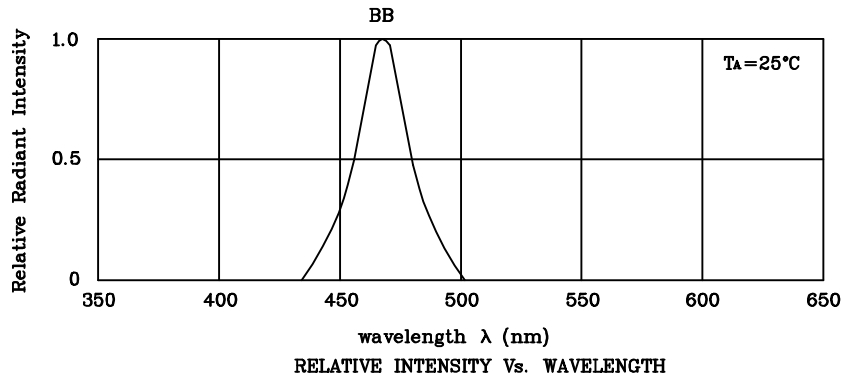
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.

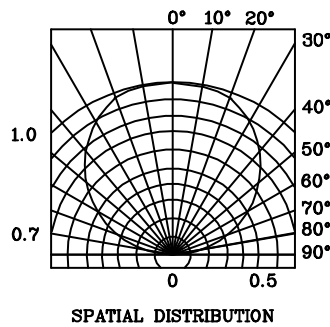
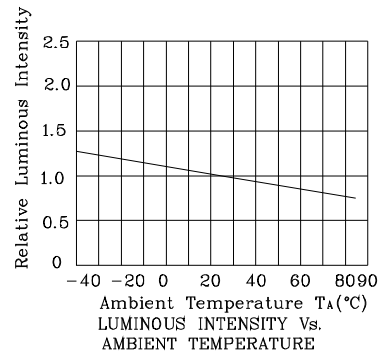
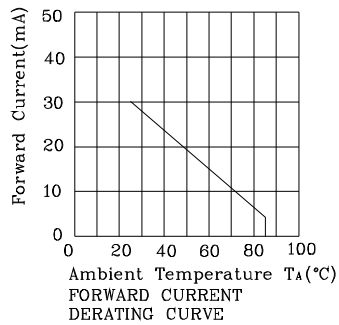
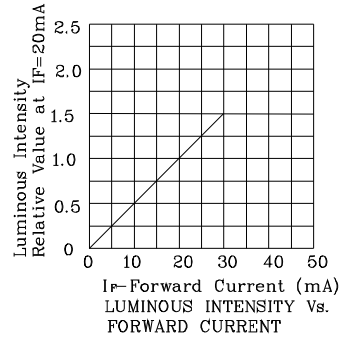
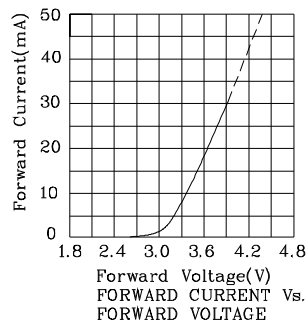
Absolute Maximum Ratings (TA=25°C)		BB (InGaN)	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	160	mA
Power Dissipation	P _T	126	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	

Operating Characteristics (TA=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 peak	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

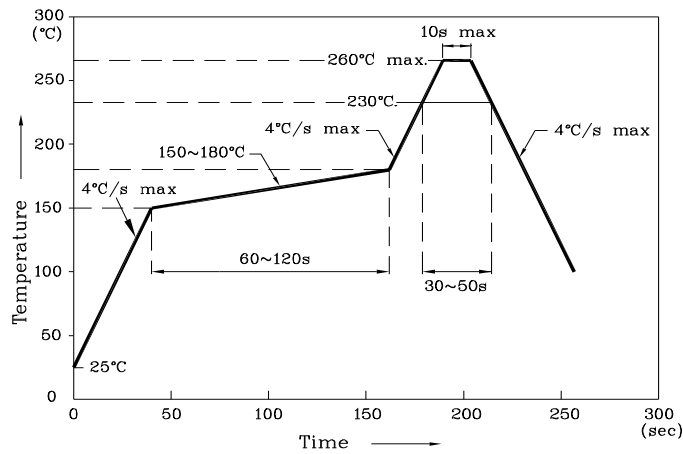
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λ P	Viewing Angle 2 θ 1/2
				min.	typ.		
XZBB45W	Blue	InGaN	Water Clear	18	59	468	120°



❖ BB



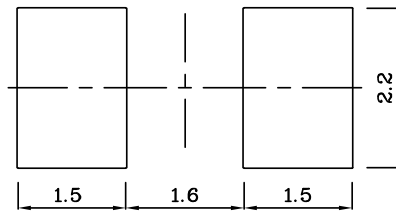
Reflow Soldering Profile For Lead-free SMT Process.



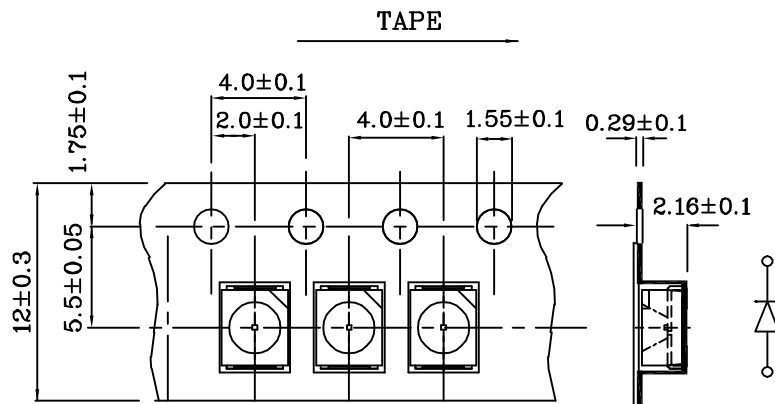
Notes:

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.

❖ 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.