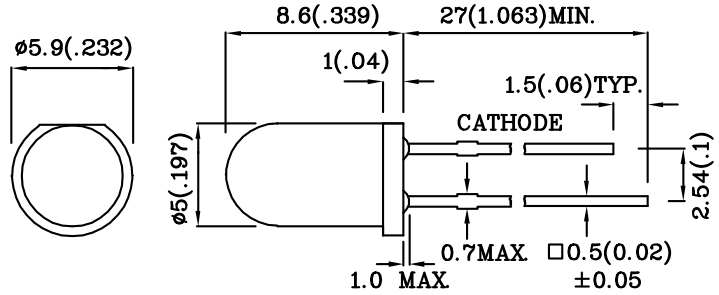


Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES



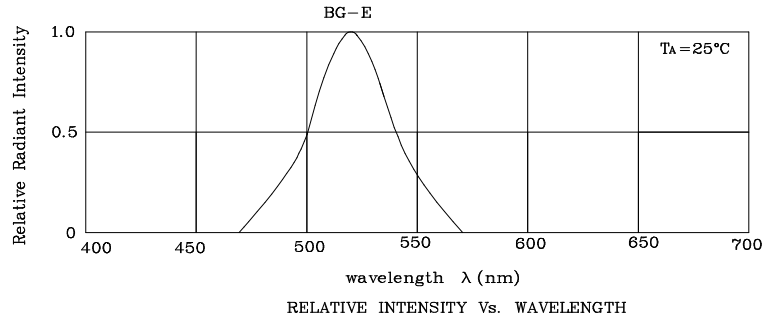
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.

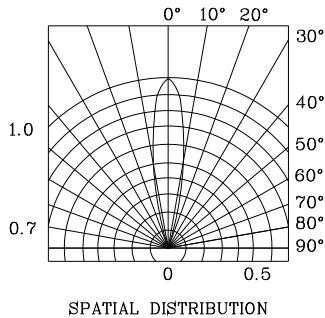
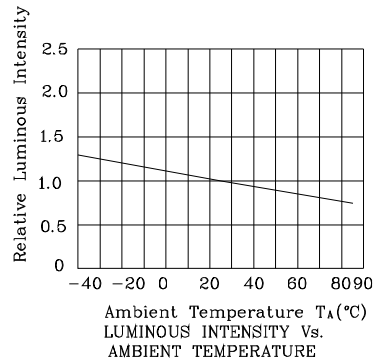
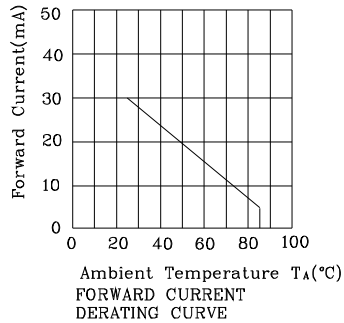
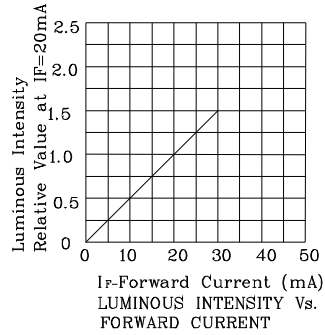
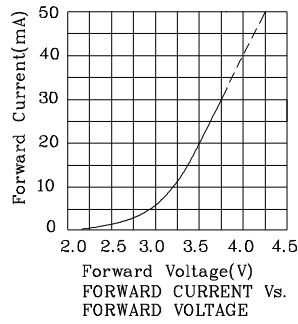
Absolute Maximum Ratings (TA=25°C)		BG-E (InGaN)	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Forward Current (peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	150	mA
Power Dissipation	P _T	120	mW
Operating Temperature	T _A	-40 ~ +85	°C
Storage Temperature	T _{stg}	-40 ~ +85	
Electrostatic Diacharge Threshold (HBM)		1000	V
Lead Solder Temperature [2mm below package base]	260°C For 3 Seconds		
Lead Solder Temperature [5mm below package base]	260°C For 5 Seconds		

Operating Characteristics (TA=25°C)		BG-E (InGaN)	Unit
Forward Voltage (typ.) (I _F =20mA)	V _F	3.5	V
Forward Voltage (max.) (I _F =20mA)	V _F	4.5	V
Reverse Current (V _R =5V)	I _R	10	uA
Wavelength of Peak Emission (I _F =20mA)	λ _P	518	nm
Wavelength of Dominant Emission (I _F =20mA)	λ _D	525	nm
Spectral Line Full Width At Half-Maximum (I _F =20mA)	Δλ	36	nm
Capacitance (V _F =0V, f=1MHz)	C	50	pF

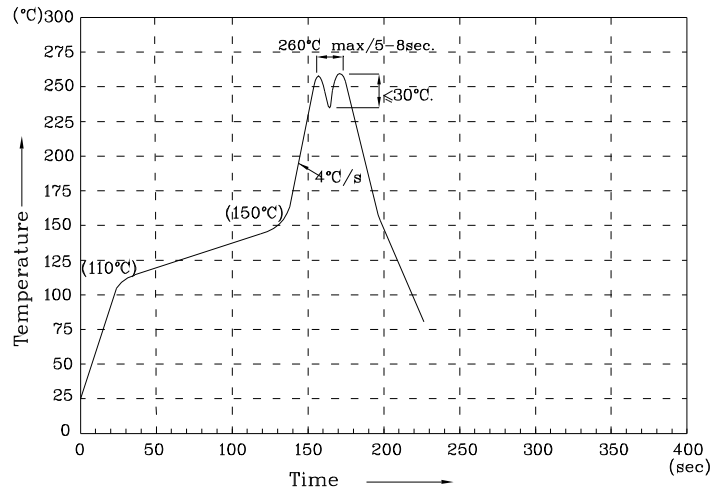
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λ _P	Viewing Angle 2 θ 1/2
				min.	typ.		
XLBGE12W	Green	InGaN	Water Clear	1800	2990	518	20°



❖ BG-E



Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

1. Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
2. Do not apply stress on epoxy resins when temperature is over 85 degree°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. No more than once.

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.