

PRELIMINARY SPEC

Features

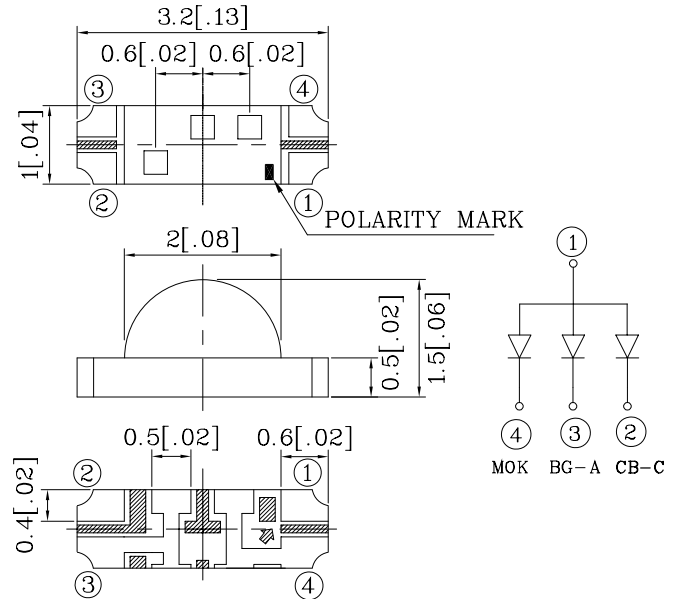
- LOW POWER CONSUMPTION.
- 3.2mmX1.0mm RIGHT ANGLE SMT LED,1.5mm THICKNESS.
- WIDE VIEWING ANGLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

Notes:

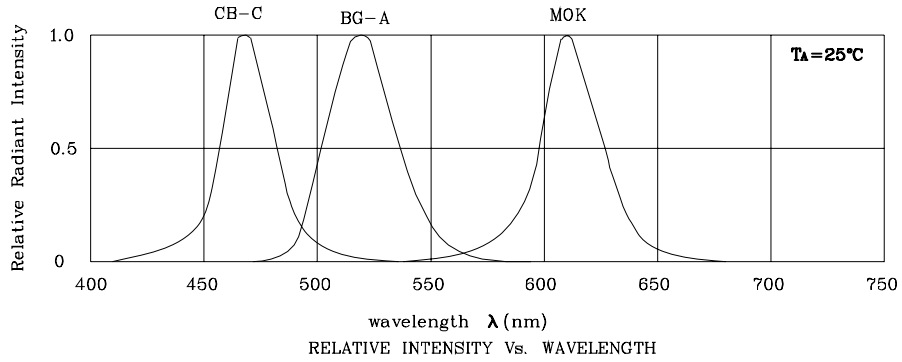
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1(0.004)$ " unless otherwise noted.



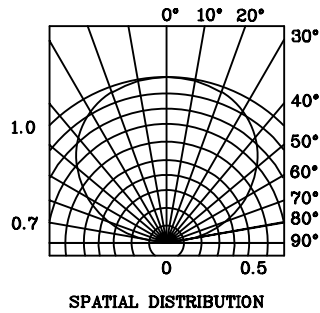
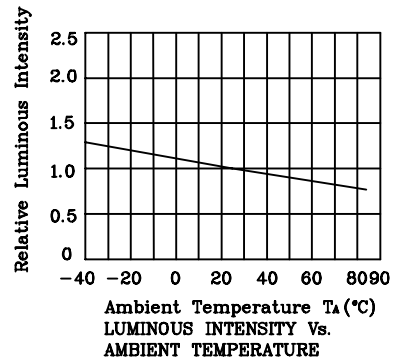
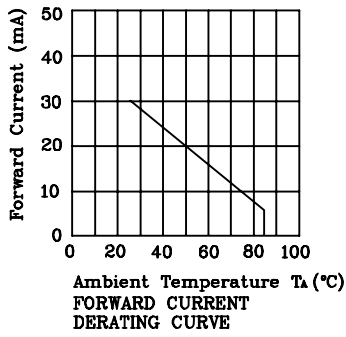
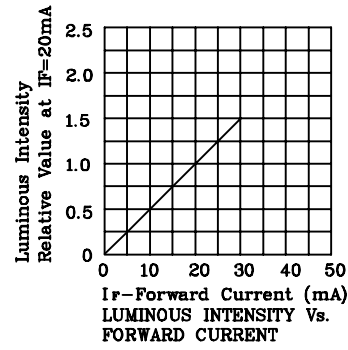
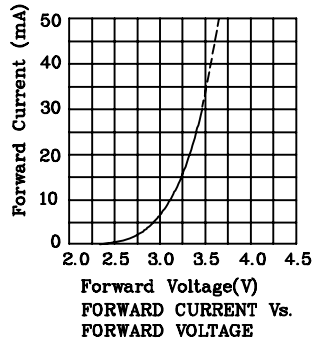
Absolute maximum ratings (TA=25°C)		CB-C (GaN)	BG-A (InGaN)	MOK (InGaAl P)	Unit
Reverse Voltage	V _R	5	5	5	V
Forward Current	I _F	30	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	150	100	195	mA
Power Dissipation	P _r	120	120	75	mW
Electrostatic Discharge Threshold (HBM)		-	1000	-	V
Operating Temperature	T _A	-40 ~ +85			°C
Storage Temperature	T _{stg}	-40 ~ +85			

Operating Characteristics (TA=25°C)		CB-C (GaN)	BG-A (InGaN)	MOK (InGaAl P)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	3.3	3.2	2.1	V
Forward Voltage (Max.) (I _F =20mA)	V _F	4.0	4.0	2.5	V
Reverse current (Max.) (V _R =5V)	I _R	10	10	10	uA
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λ _P	470	520	610	nm
Wavelength of Dominant emission (Typ.) (I _F =20mA)	λ _D	470	525	601	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	25	35	29	nm
Capacitance (V _F =0V, f=1MHz)	C	105	100	15	pF

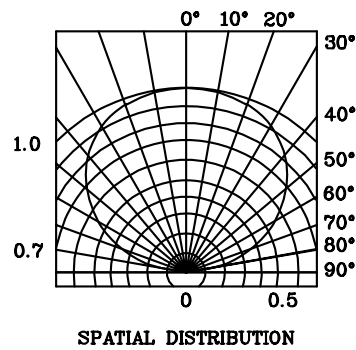
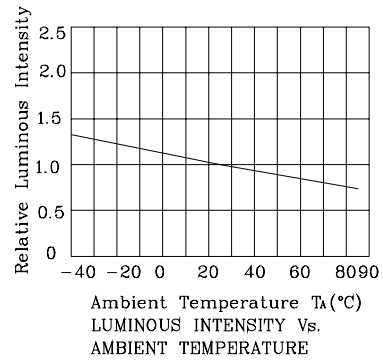
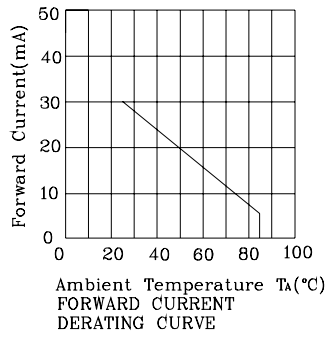
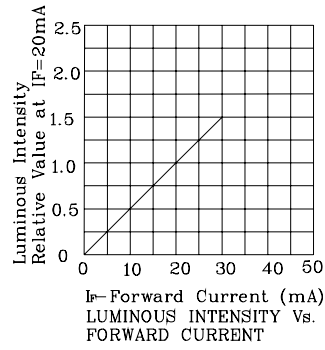
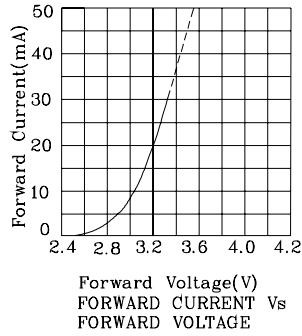
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λ _P	Viewing Angle 2 θ 1/2
				min.	typ.		
XZCBCBGAMOK88W	Blue	GaN	Water Clear	36	69	470	130°
	Green	InGaN		50	198	520	
	Orange	InGaAlP		70	198	610	



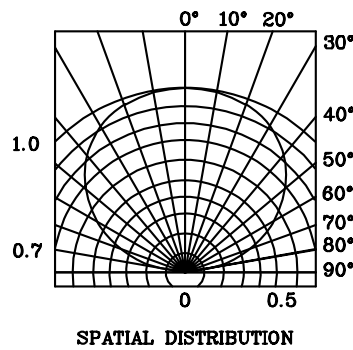
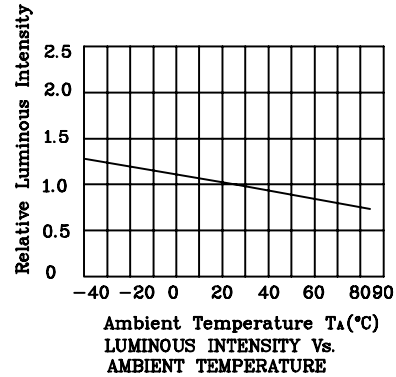
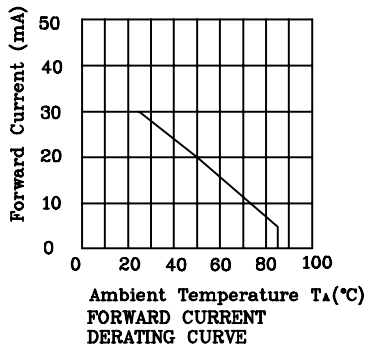
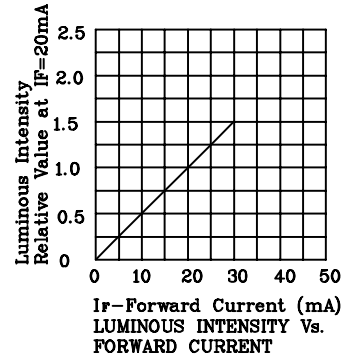
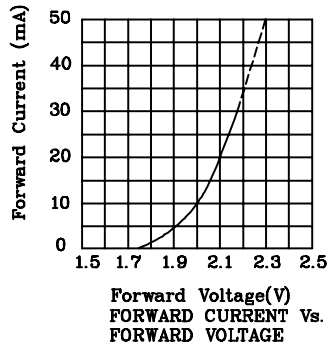
❖ CB-C



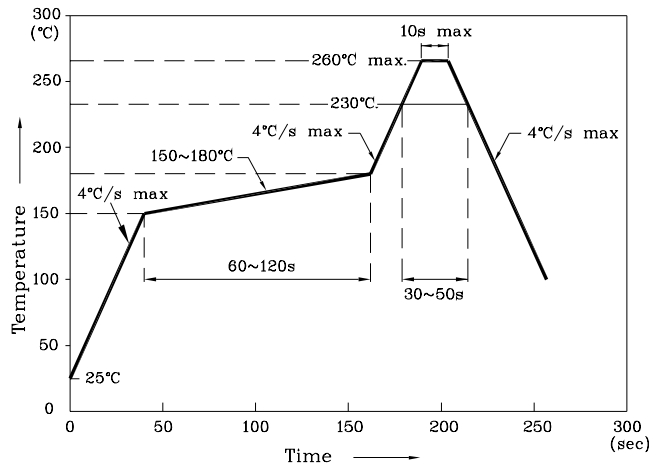
❖ BG-A



❖ MOK



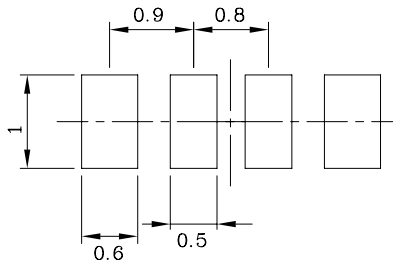
Reflow Soldering Profile For Lead-free SMT Process.



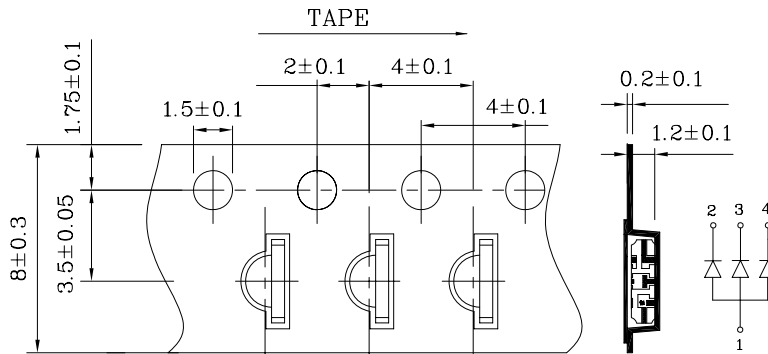
Notes:

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 / 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.