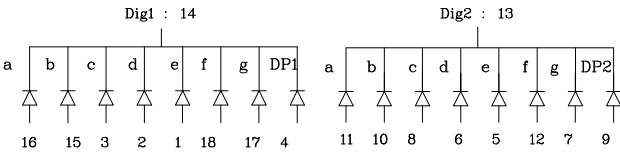
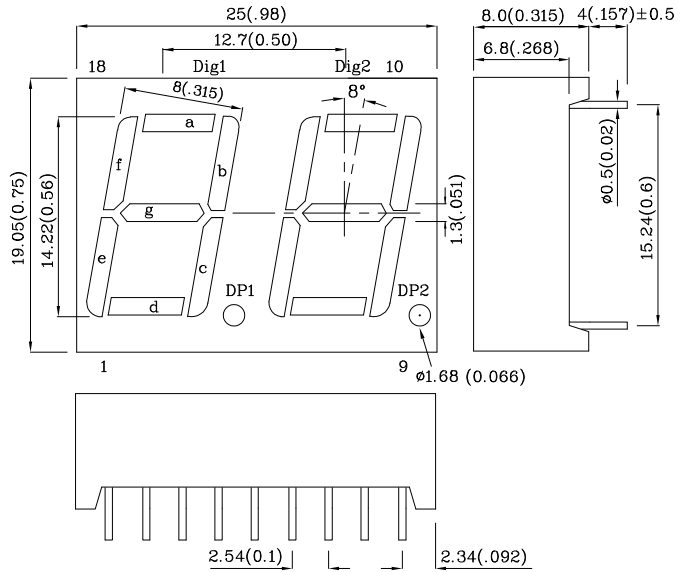


**Features**

- 0.56 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- TWO DIGIT PACKAGE SIMPLIFIES ALIGNMENTS & ASSEMBLY.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD: GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.



Notes:

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

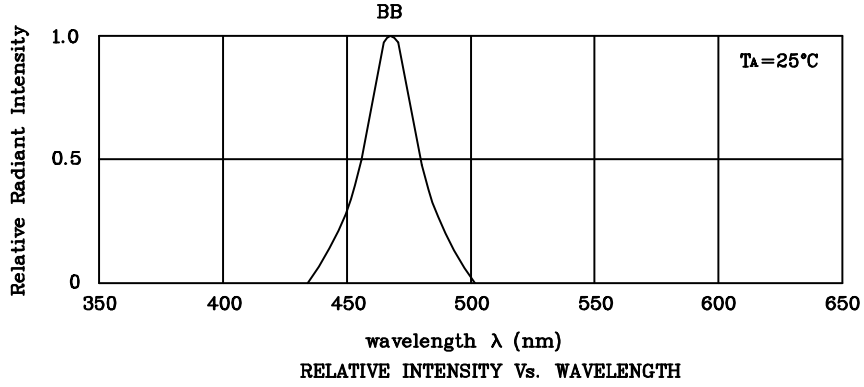


**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

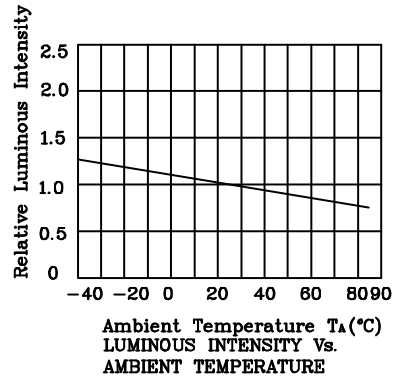
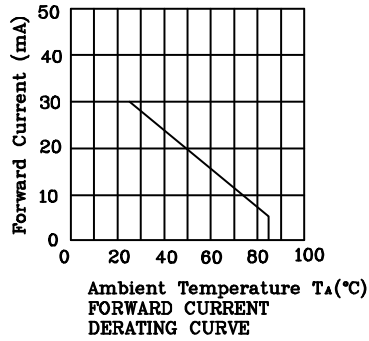
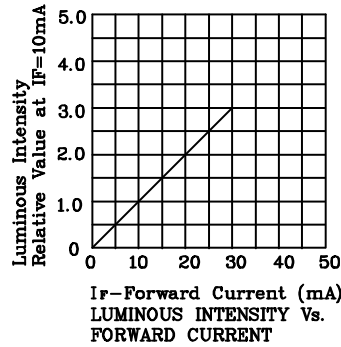
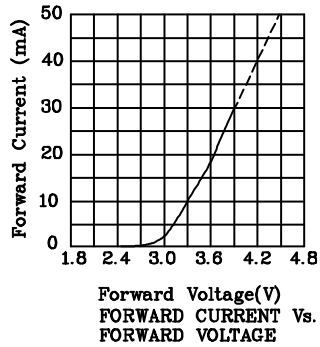
Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )		BB (InGaN)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width	iFS	160	mA
Power Dissipation	PT	102	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	
Electrostatic Diacharge Threshold (HBM)		1000	V
Lead Solder Temperature [2mm below package base]	260°C For 3 Seconds		

Operating Characteristics ( $T_A=25^\circ\text{C}$ )		BB (InGaN)	Unit
Forward Voltage (typ.) ( $I_F=10\text{mA}$ )	VF	3.3	V
Forward Voltage (max.) ( $I_F=10\text{mA}$ )	VF	4.2	V
Reverse Current ( $V_R=5\text{V}$ )	IR	10	uA
Wavelength of Peak Emission ( $I_F=10\text{mA}$ )	$\lambda P$	468	nm
Wavelength of Dominant Emission ( $I_F=10\text{mA}$ )	$\lambda D$	470	nm
Spectral Line Full Width At Half-Maximum ( $I_F=10\text{mA}$ )	$\Delta\lambda$	25	nm
Capacitance ( $V_F=0\text{V}$ , $f=1\text{MHz}$ )	C	65	pF

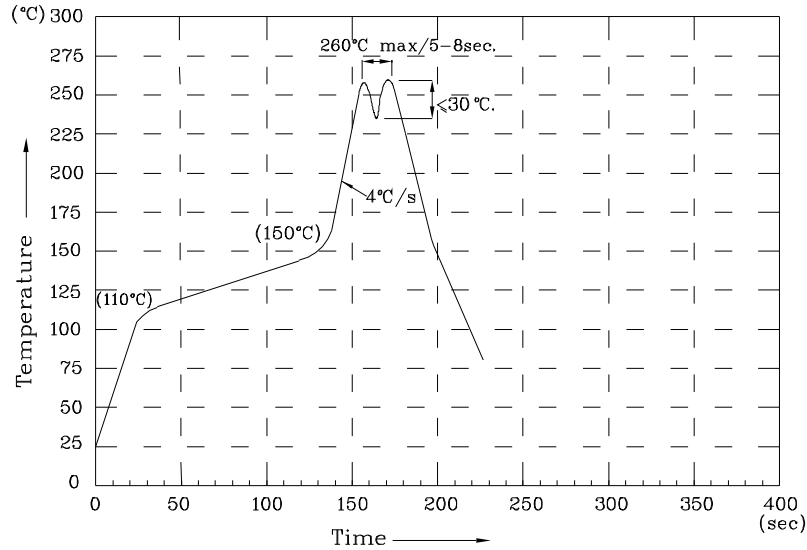
Part Number	Emitting Color	Emitting Material	Luminous Intensity ( $I_F=10\text{mA}$ ) ucd	Wavelength nm $\lambda P$	Description
XDBB14C2	Blue	InGaN	min. 8000 typ. 17990	468	Common Cathode, Rt. Hand Decimal



❖ **BB**



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.