SunLED
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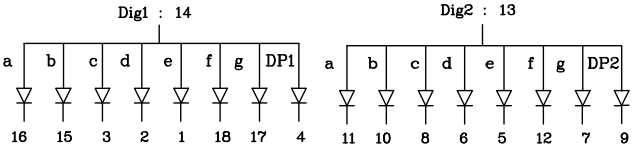
Part Number: **XDBB14A2**

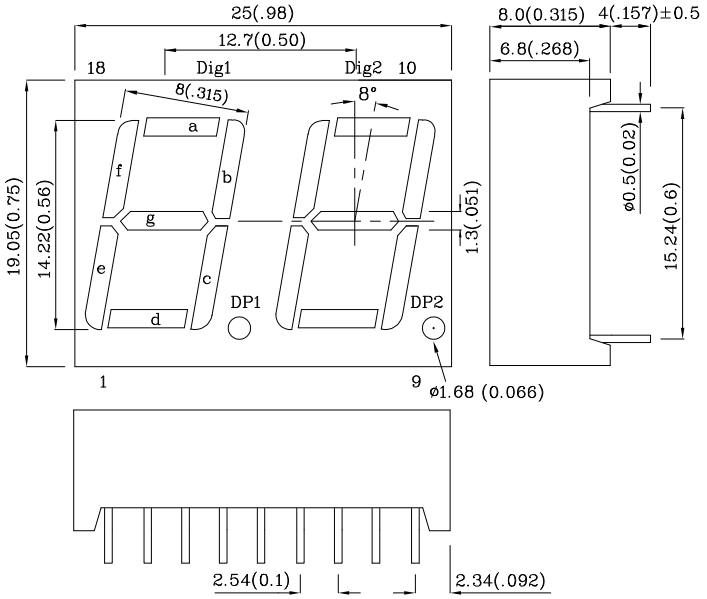
14.22mm (0.56") DUAL DIGIT MUMERIC DISPLAY

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.

ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES





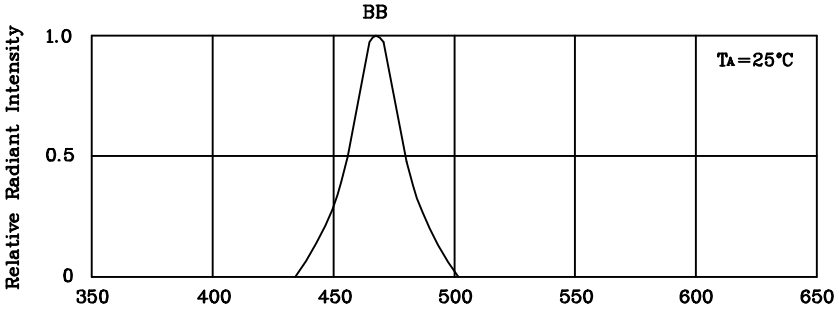
Notes:

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	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		

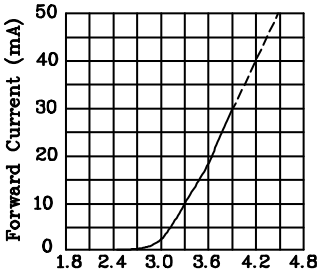
Operating Characteristics (TA=25°C)		**BB (InGaN)**	**Unit**
Forward Voltage (typ.) (IF=10mA)	VF	3.3	V
Forward Voltage (max.) (IF=10mA)	VF	4.2	V
Reverse Current (VR=5V)	IR	10	uA
Wavelength of Peak Emission (IF=10mA)	λ P	468	nm
Wavelength of Dominant Emission (IF=10mA)	λ D	470	nm
Spectral Line Full Width At Half-Maximum (IF=10mA)	Δλ	25	nm
Capacitance (VF=0V, f=1MHz)	C	65	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
XDBB14A2	Blue	InGaN	8000	17990	468	Common Anode, Rt. Hand Decimal

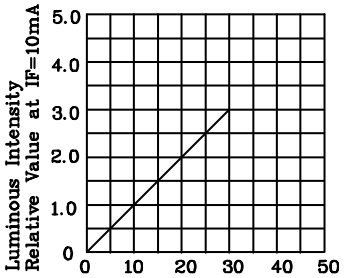


RELATIVE INTENSITY Vs. WAVELENGTH

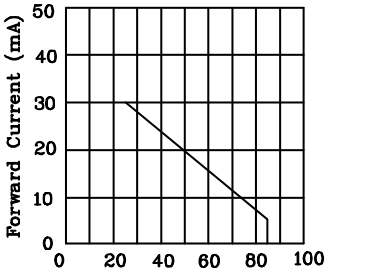
❖ **BB**



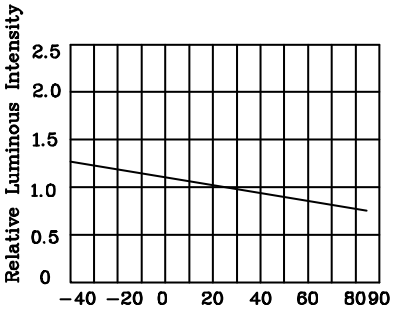
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

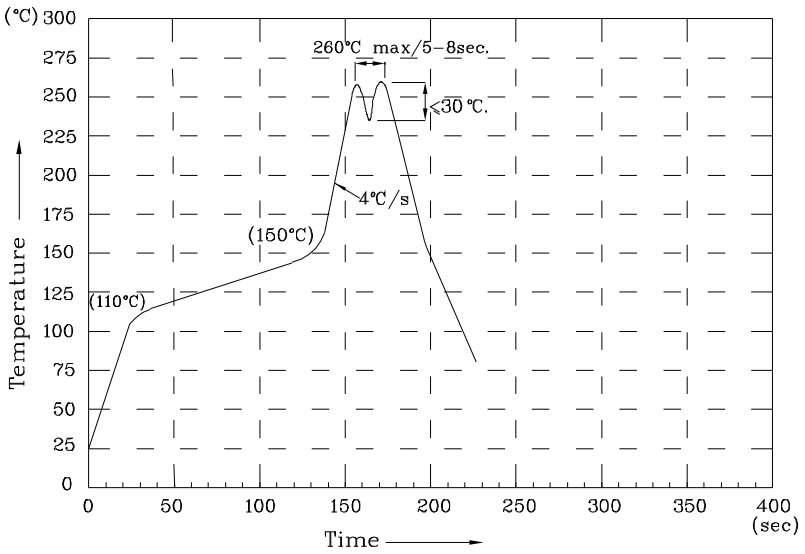


FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

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



NOTES:

1. Recommend the wave temperature 245℃~260℃. The maximum soldering temperature should be less than 260℃.
2. Do not apply stress on epoxy resins when temperature is over 85 degree℃.
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.