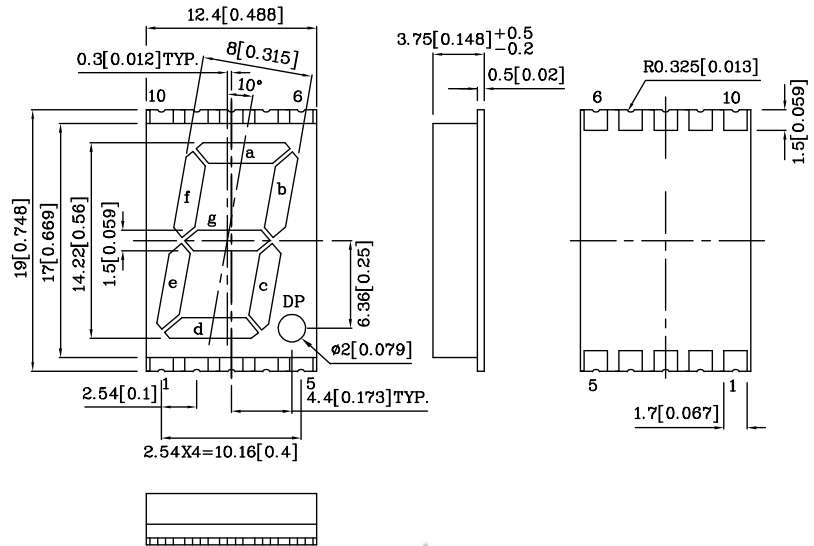
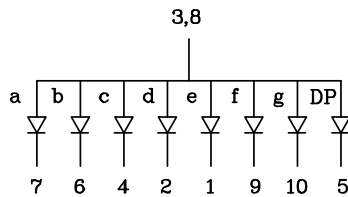


Features

- 0.56 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- GRAY FACE, WHITE SEGMENT.
- PACKAGE : 800PCS / REEL.
- RoHS COMPLIANT.



Notes:

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

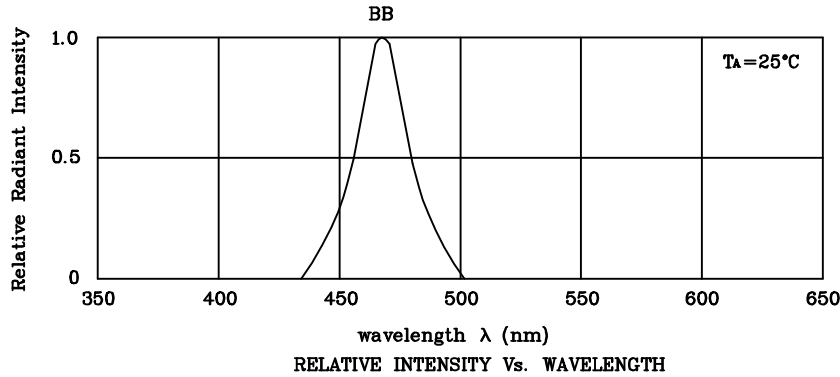


ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE

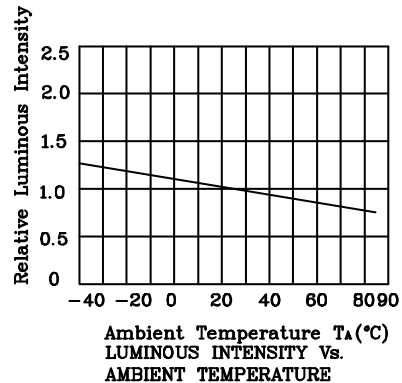
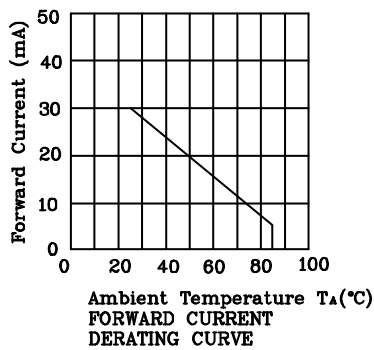
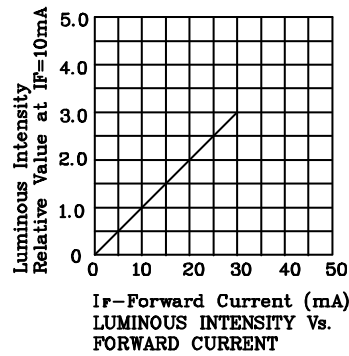
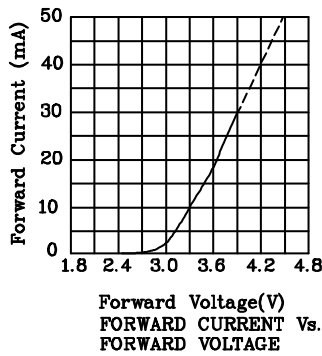
| Absolute maximum ratings (TA=25°C) | | BB (InGaN) | Unit |
|--|------------------|---------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i _{FS} | 160 | mA |
| Power Dissipation | P _T | 102 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |
| Electrostatic Discharge Threshold (HBM) | | 1000 | V |

| Operating Characteristics (TA=25°C) | | BB (InGaN) | Unit |
|---|----------------|---------------|------|
| Forward Voltage (Typ.) (I _F =10mA) | V _F | 3.3 | V |
| Forward Voltage (Max.) (I _F =10mA) | V _F | 4.2 | V |
| Reverse Current (V _R =5V) | I _R | 10 | uA |
| Wavelength of Peak Emission (I _F =10mA) | λ _p | 468 | nm |
| Wavelength of Dominant Emission (I _F =10mA) | λ _D | 470 | nm |
| Spectral Line Full Width At Half-Maximum (I _F =10mA) | Δλ | 25 | nm |
| Capacitance (V _F =0V, f=1MHz) | C | 65 | pF |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity (I _F =10mA) ucd | | Wavelength nm λ P | Description |
|-------------|----------------|-------------------|---|-------|-------------------------|-------------------------------|
| | | | min. | typ. | | |
| XZDBB14A | Blue | InGaN | 3000 | 15790 | 468 | Common Anode.Rt. Hand Decimal |



❖ BB



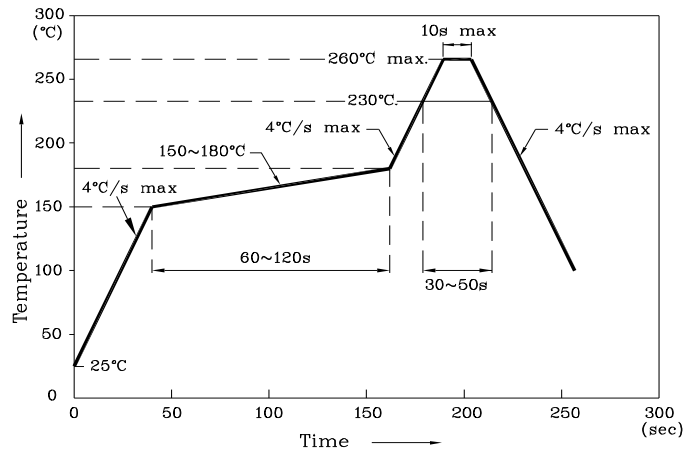
Remarks:

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.

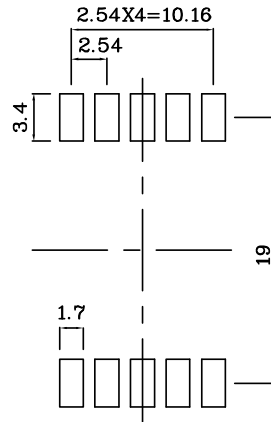
Reflow Soldering Profile For Lead-free SMT Process.



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:± 0.15)



❖ Tape Specification (Units : mm)

