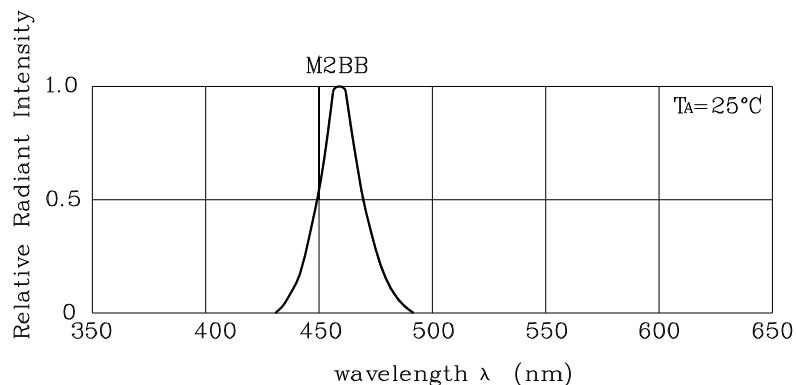


A circular symbol with a diagonal line through it, containing the letters 'Pb', positioned above a triangular symbol with a diagonal line through it, containing a hand icon.

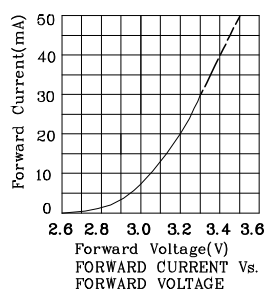
| Operating Characteristics<br>(T <sub>A</sub> =25°C)                          |                | M2BB<br>(InGaN) | Unit |
|------------------------------------------------------------------------------|----------------|-----------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =20mA)                             | V <sub>F</sub> | 3.2             | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =20mA)                             | V <sub>F</sub> | 3.7             | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                               | I <sub>R</sub> | 10              | uA   |
| Wavelength of Peak<br>Emission (Typ.)<br>(I <sub>F</sub> =20mA)              | λ P            | 458             | nm   |
| Wavelength of Dominant<br>Emission (Typ.)<br>(I <sub>F</sub> =20mA)          | λ D            | 465             | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =20mA) | Δλ             | 22              | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                           | C              | 110             | pF   |

| Part Number                  | Emitting Color | Emitting Material     | Lens-color  | Luminous Intensity (IF=20mA)<br>mcd | Wavelength<br>nm<br>λ P | Viewing Angle<br>2 θ 1/2 |
|------------------------------|----------------|-----------------------|-------------|-------------------------------------|-------------------------|--------------------------|
|                              |                |                       |             | min.                                | typ.                    |                          |
| ZM2BB94W                     | Blue           | InGaN                 | Water Clear | 110                                 | 248                     | 458 90°                  |
|                              |                |                       |             |                                     |                         |                          |
|                              |                |                       |             |                                     |                         |                          |
| Published Date : FEB 27,2008 |                | Drawing No : SDSA6424 |             | V1                                  | Checked : B.L.LIU       | P.1/4                    |

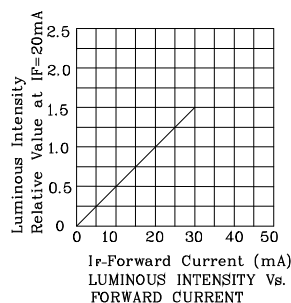


RELATIVE INTENSITY Vs. WAVELENGTH

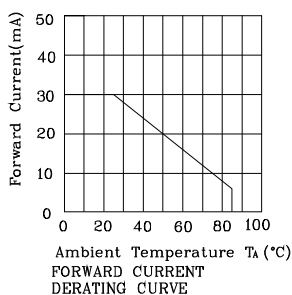
❖ **M2BB**



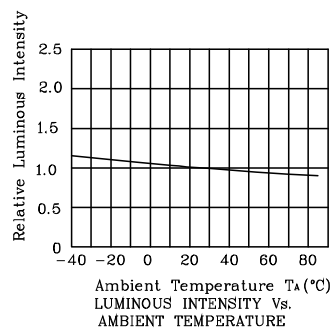
FORWARD CURRENT Vs. FORWARD VOLTAGE



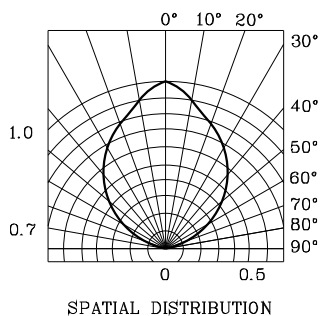
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE

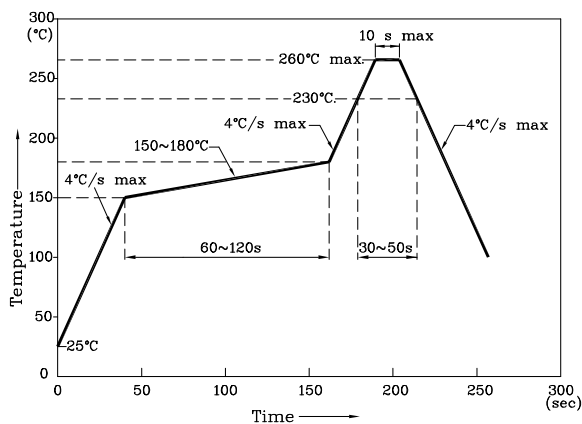


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION

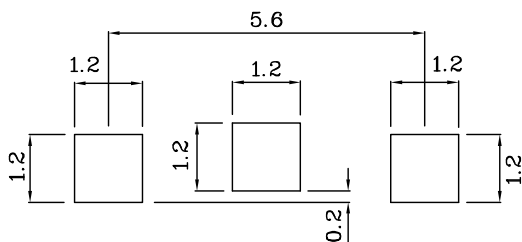
### Reflow Soldering Profile For Lead-free SMT Process.



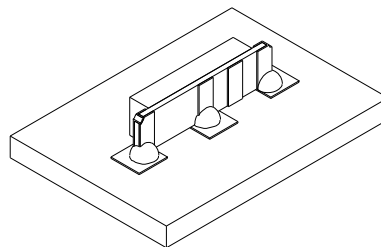
NOTES:

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.

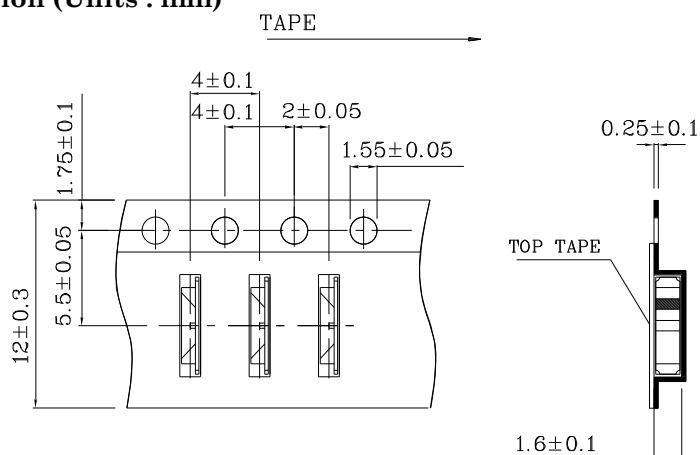
### ❖ Recommended Soldering Pattern (Units : mm; Tolerance:± 0.1)



- ❖ The device has a single mounting surface. The device must be mounted according to the specifications.



### ❖ 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:

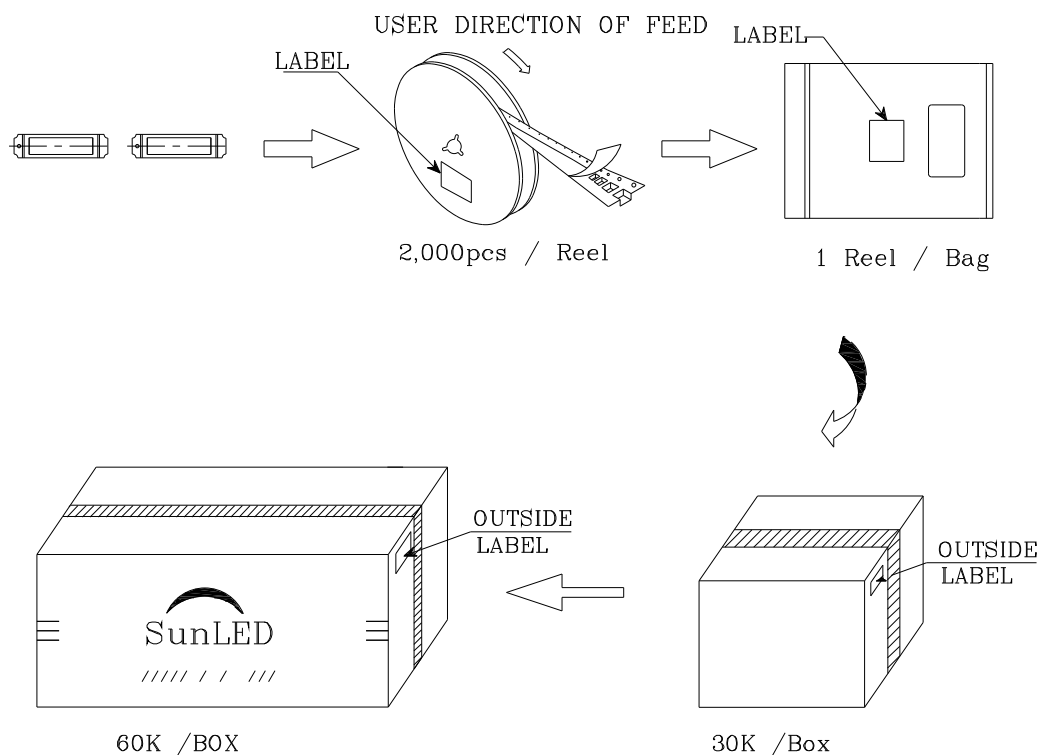
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



**PACKING & LABEL SPECIFICATIONS**

**ZM2BB94W**



|                          |           |  |
|--------------------------|-----------|--|
|                          |           |  |
| P/NO : Zxx94x            |           |  |
| QTY : 2,000 pcs          | CODE: XXX |  |
| S/N : XX                 |           |  |
| LOT NO:                  |           |  |
| <br>XXXXXXXXXXXXXXXXXXXX |           |  |
| RoHS Compliant           |           |  |