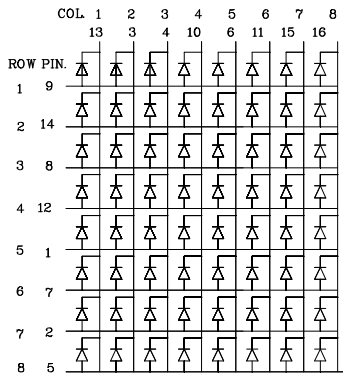


**Features**

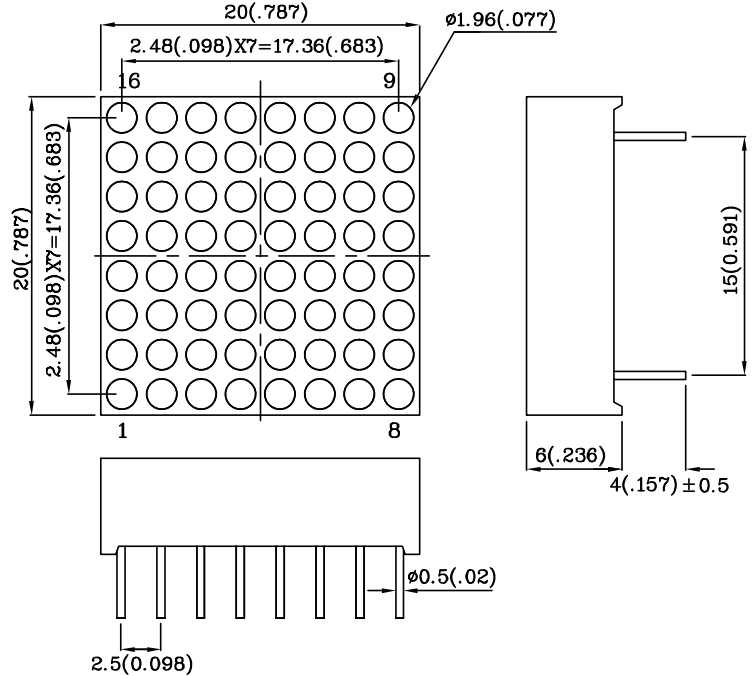
- 0.8INCH MATRIX HEIGHT.
- DOT SIZE 2mm.
- LOW CURRENT OPERATION.
- COMPATIBLE WITH ASCII AND EBCDIC CODES.
- STACKABLE VERTICALLY AND HORIZONTALLY.
- EASY MOUNTING ON P.C.BOARDS OR SOCKETS.
- MECHANICALLY RUGGED.
- STANDARD: GRAY FACE, WHITE DOT.
- RoHS COMPLIANT.



Notes:

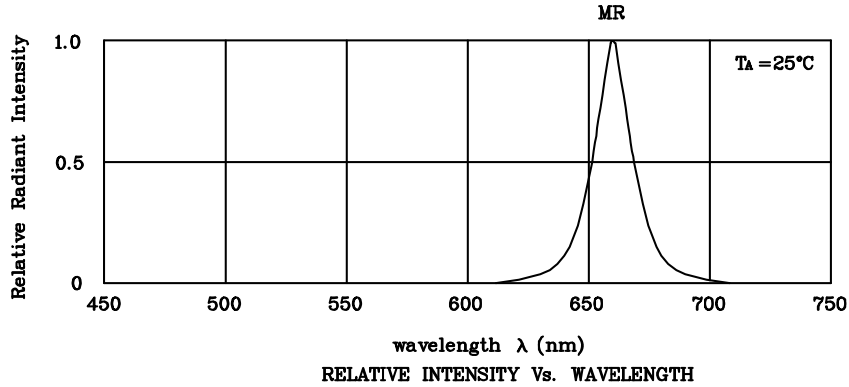
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$ " unless otherwise noted.
3. Specifications are subject to change without notice.

| Absolute Maximum Ratings<br>(TA=25°C)                          |                       | MR<br>(GaAlAs) | Unit |
|--|-----------------------|----------------|------|
| Reverse Voltage  | VR                    | 5              | V    |
| Forward Current  | IF                    | 30             | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS                   | 155            | mA   |
| Power Dissipation  | PT                    | 75             | mW   |
| Operating Temperature  | TA                    | -40 ~ +85      | °C   |
| Storage Temperature  | Tstg                  | -40 ~ +85      |      |
| Lead Solder Temperature<br>[2mm Below Package Base]            | 260°C For 3~5 Seconds |                |      |

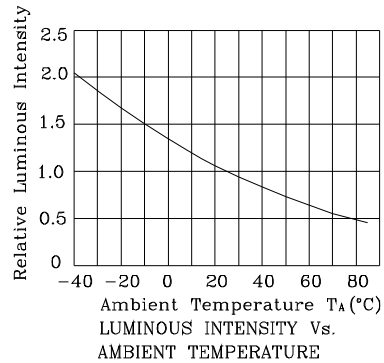
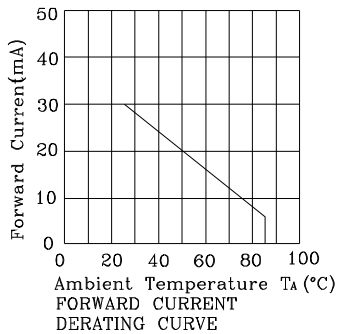
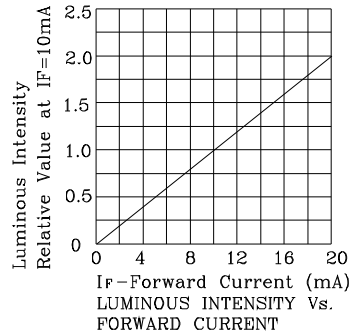
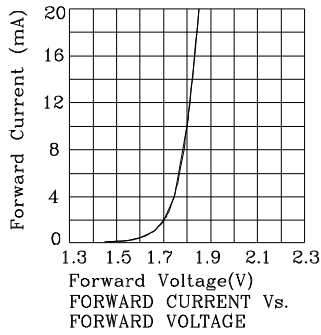


| Operating Characteristics<br>(TA=25°C)                          |     | MR<br>(GaAlAs) | Unit |
|---|-----|----------------|------|
| Forward Voltage (Typ.)<br>(IF=10mA)                             | VF  | 1.8            | V    |
| Forward Voltage (Max.)<br>(IF=10mA)                             | VF  | 2.5            | V    |
| Reverse Current (Max.)<br>(VR=5V)                               | IR  | 10             | uA   |
| Wavelength of Peak<br>Emission (Typ.)<br>(IF=10mA)              | λ P | 660            | nm   |
| Wavelength of Dominant<br>Emission (Typ.)<br>(IF=10mA)          | λ D | 640            | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(IF=10mA) | Δλ  | 20             | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                           | C   | 45             | pF   |

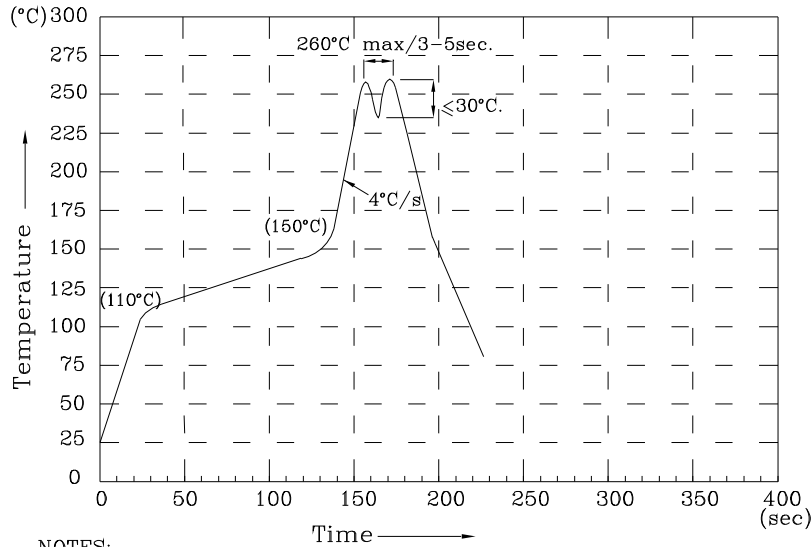
| Part Number | Emitting Color | Emitting Material | Luminous Intensity<br>(IF=10mA)<br>ucd | Wavelength<br>nm<br>λ P | Description    |
|-------------|----------------|-------------------|--|-------------------------|----------------|
| XMMR20C     | Red            | GaAlAs            | min. 4700<br>typ. 23590                | 660                     | Column Cathode |



❖ **MR**



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



NOTES:

1. Recommend the wave soldering 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:

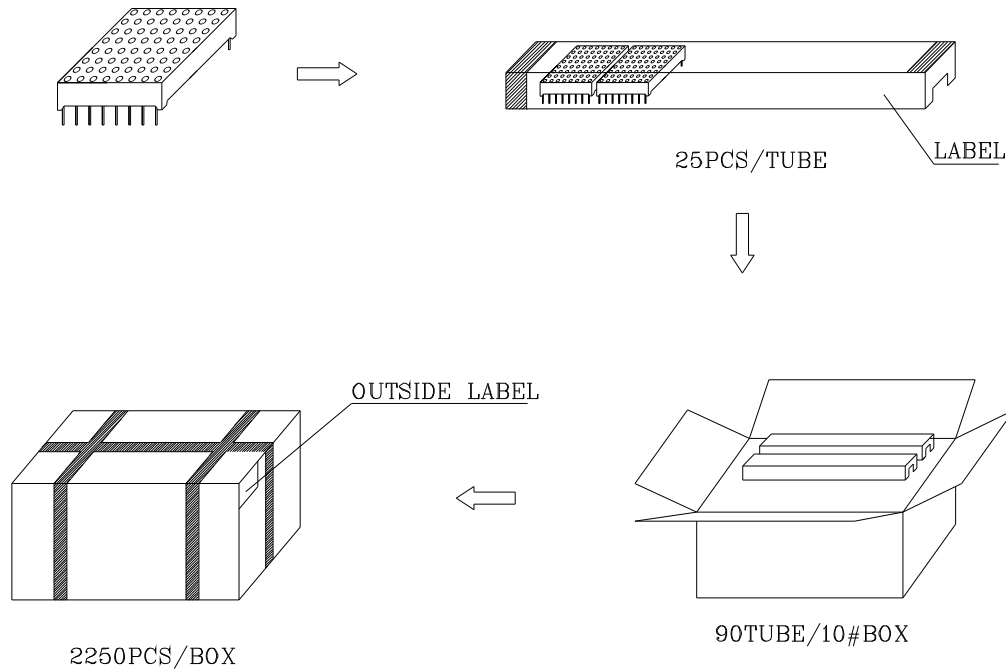
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

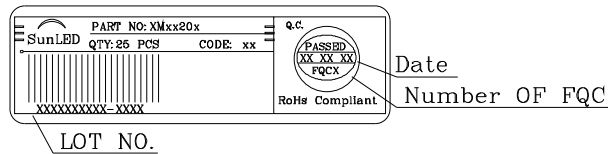
Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**XMMR20C**



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

