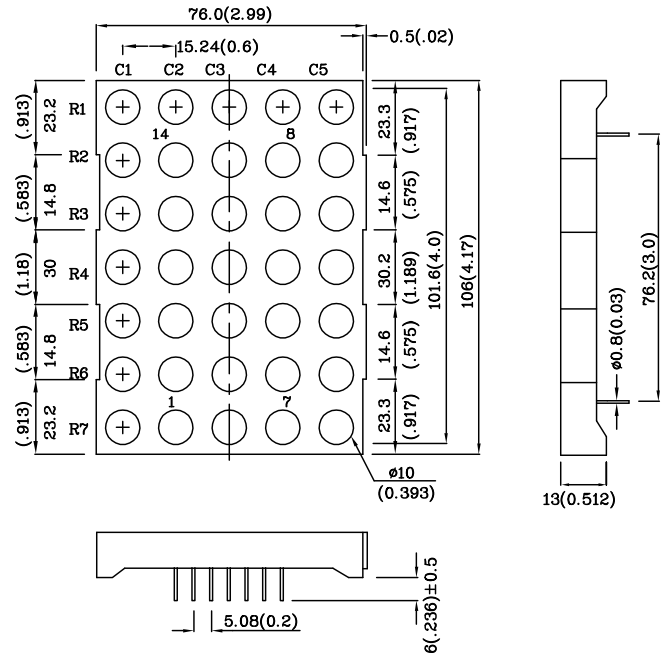
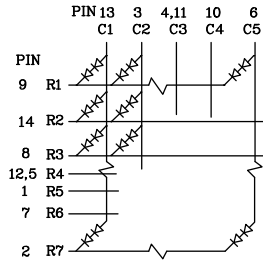


**Features**

- 4.0 INCH MATRIX HEIGHT.
- DOT SIZE 10mm.
- LOW CURRENT OPERATION.
- HIGH CONTRAST AND LIGHT OUTPUT.
- COMPATIBLE WITH ASCII AND EBCDIC CODES.
- STACKABLE HORIZONTALLY.
- COLUMN ANODE AVAILABLE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- MULTICOLOR AVAILABLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE DOT.
- RoHS COMPLIANT.



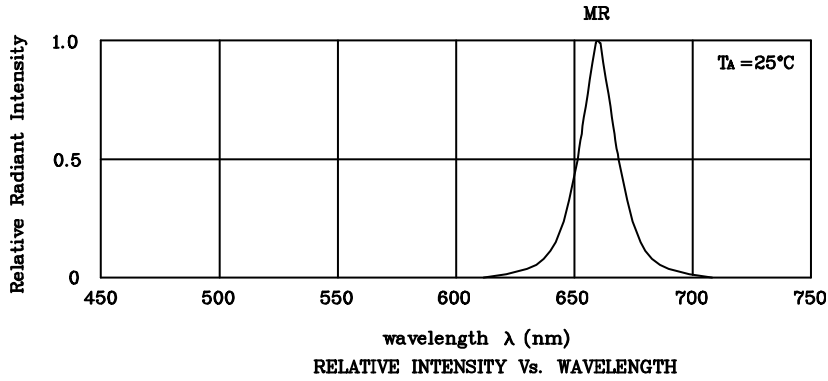
Notes:

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

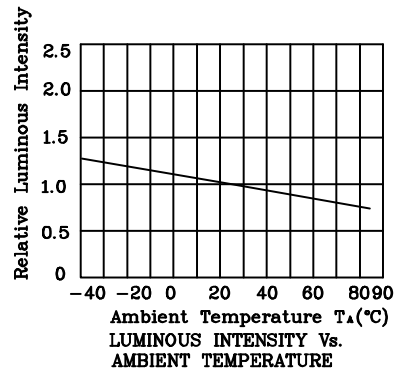
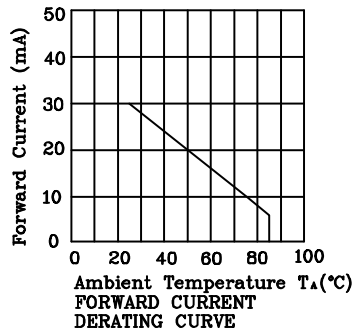
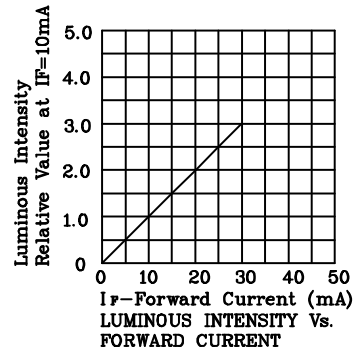
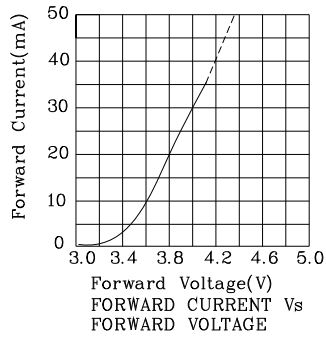
| Absolute Maximum Ratings<br>(TA=25°C)                                                          |                     | MR<br>(GaAlAs) | Unit |
|------------------------------------------------------------------------------------------------|---------------------|----------------|------|
| Reverse Voltage<br>Per Segment or (Dp and Comma)                                               | VR                  | 10             | V    |
| Forward Current<br>Per Segment or (Dp and Comma)                                               | IF                  | 30             | mA   |
| Forward Current (peak)<br>Per Segment or (Dp and Comma)<br>1/10Duty Cycle<br>0.1ms Pulse Width | iFS                 | 155            | mA   |
| Power Dissipation<br>Per Segment or (Dp and Comma)                                             | PT                  | 150            | mW   |
| Operating Temperature                                                                          | TA                  | -40 ~ +85      | °C   |
| Storage Temperature                                                                            | Tstg                | -40 ~ +85      |      |
| Lead Solder Temperature<br>[2mm below package base]                                            | 260°C For 5 Seconds |                |      |

| Operating Characteristics<br>(TA=25°C)                               |                 | MR<br>(GaAlAs) | Unit |
|----------------------------------------------------------------------|-----------------|----------------|------|
| Forward Voltage (typ.)<br>Per Segment or (Dp and Comma)<br>(IF=10mA) | VF              | 3.6            | V    |
| Forward Voltage (max.)<br>Per Segment or (Dp and Comma)<br>(IF=10mA) | VF              | 5.0            | V    |
| Reverse Current<br>(VR=10V)                                          | IR              | 10             | uA   |
| Wavelength of Peak Emission<br>(IF=10mA)                             | $\lambda P$     | 660            | nm   |
| Wavelength of Dominant<br>Emission<br>(IF=10mA)                      | $\lambda D$     | 640            | nm   |
| Spectral Line Full Width<br>At Half-Maximum<br>(IF=10mA)             | $\Delta\lambda$ | 20             | nm   |
| Capacitance<br>(VF=0V, f=1MHz)                                       | C               | 45             | pF   |

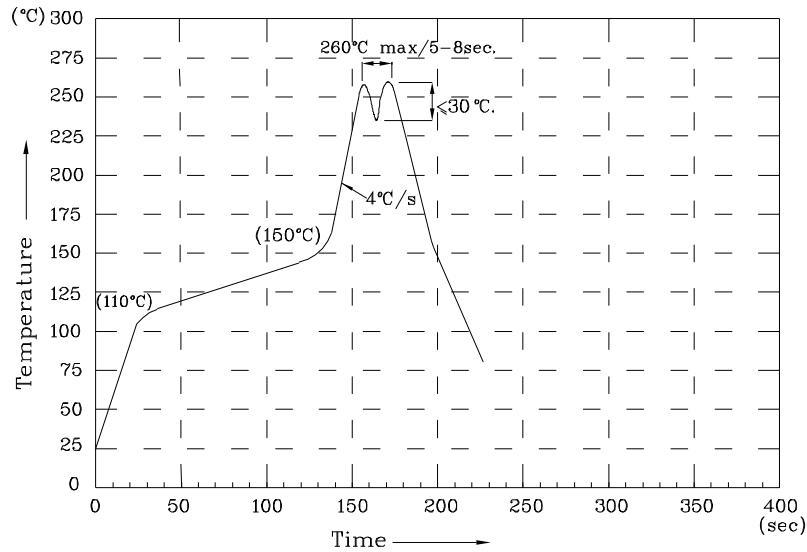
| Part Number | Emitting Color | Emitting Material | Luminous Intensity<br>(IF=10mA)<br>ucd | Wavelength<br>nm<br>$\lambda P$ | Description  |
|-------------|----------------|-------------------|----------------------------------------|---------------------------------|--------------|
| XMMR100A    | Red            | GaAlAs            | min. 12000<br>typ. 43990               | 660                             | Column Anode |



❖ MR



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.