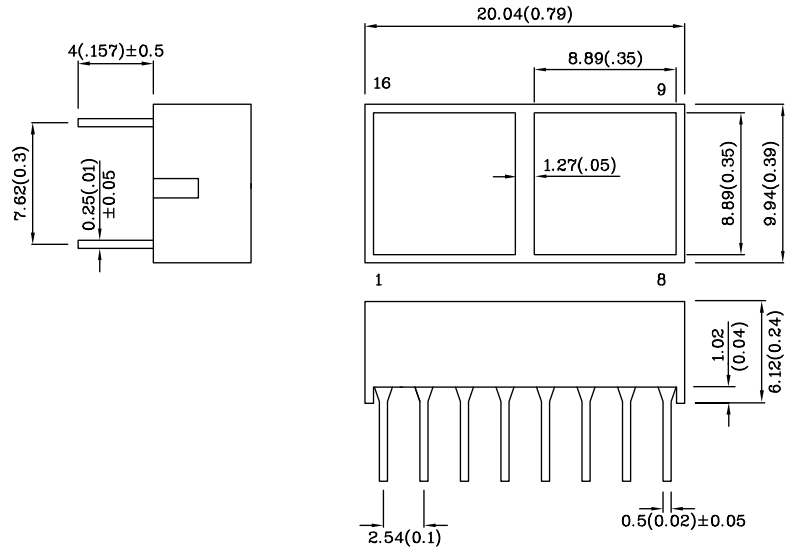
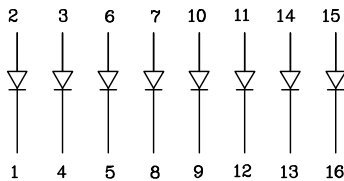


### Features

- UNIFORM LIGHT EMITTING AREA.
- LOW CURRENT OPERATION.
- EASILY MOUNTED ON P.C. BOARDS.
- FLUSH MOUNTABLE.
- EXCELLENT ON/OFF CONTRAST.
- CAN BE USED WITH PANELS AND LEGEND MOUNTS.
- RoHS COMPLIANT.



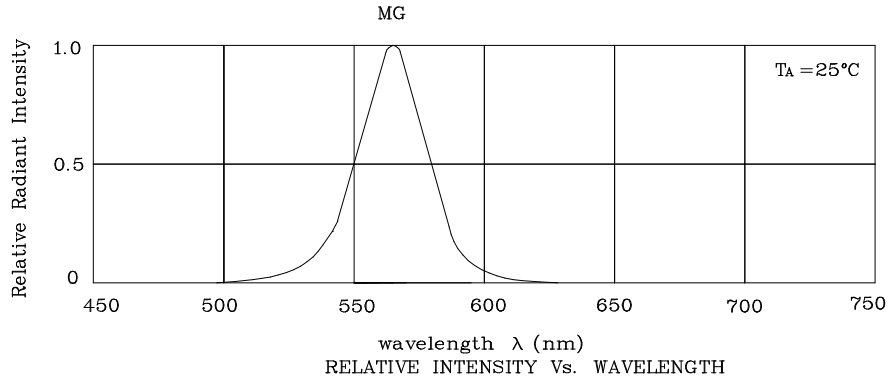
### Notes:

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

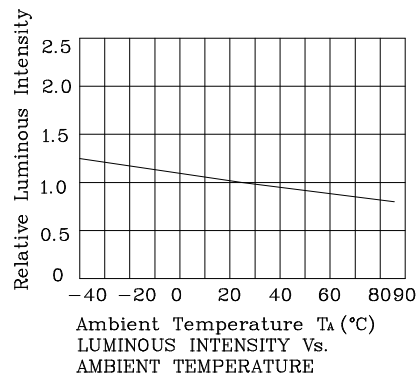
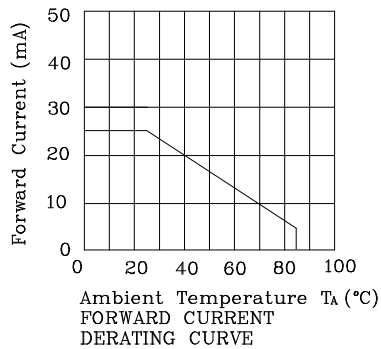
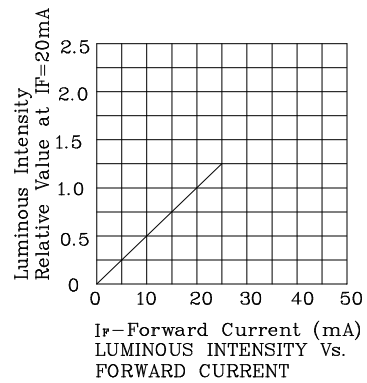
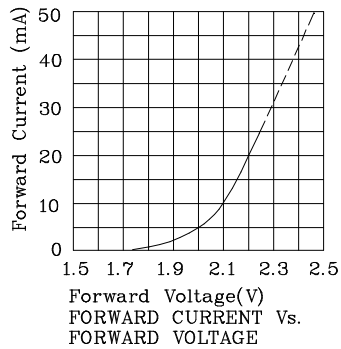
| Absolute Maximum Ratings<br>( $T_A=25^\circ\text{C}$ )        |                     | MG<br>(GaP) | Unit |
|---|---------------------|-------------|------|
| Reverse Voltage   | $V_R$               | 5           | V    |
| Forward Current   | $I_F$               | 25          | mA   |
| Forward Current (peak)<br>1/10Duty Cycle<br>0.1ms Pulse Width | $i_{FS}$            | 140         | mA   |
| Power Dissipation   | $P_T$               | 105         | mW   |
| Operating Temperature   | $T_A$               | -40 ~ +85   | °C   |
| Storage Temperature   | $T_{stg}$           | -40 ~ +85   |      |
| Lead Solder Temperature<br>[2mm below package base]           | 260°C For 5 Seconds |             |      |

| Operating Characteristics<br>( $T_A=25^\circ\text{C}$ )              |                 | MG<br>(GaP) | Unit          |
|--|-----------------|-------------|---------------|
| Forward Voltage (typ.)<br>( $I_F=20\text{mA}$ )                      | $V_F$           | 2.2         | V             |
| Forward Voltage (max.)<br>( $I_F=20\text{mA}$ )                      | $V_F$           | 2.5         | V             |
| Reverse Current<br>( $V_R=5\text{V}$ )                               | $I_R$           | 10          | $\mu\text{A}$ |
| Wavelength of Peak<br>Emission<br>( $I_F=20\text{mA}$ )              | $\lambda_P$     | 565         | nm            |
| Wavelength of Dominant<br>Emission<br>( $I_F=20\text{mA}$ )          | $\lambda_D$     | 568         | nm            |
| Spectral Line Full Width<br>At Half-Maximum<br>( $I_F=20\text{mA}$ ) | $\Delta\lambda$ | 30          | nm            |
| Capacitance<br>( $V_F=0\text{V}$ , $f=1\text{MHz}$ )                 | $C$             | 15          | pF            |

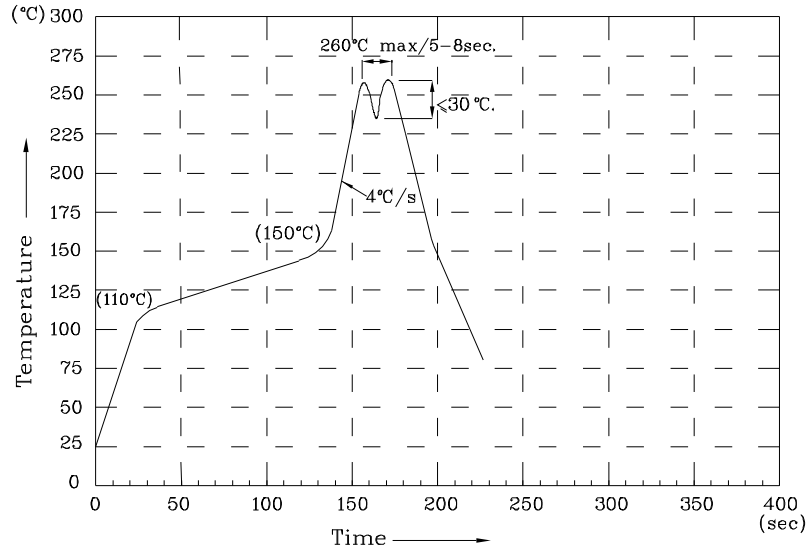
| Part Number | Emitting Color | Emitting Material | Lens-color     | Luminous Intensity<br>( $I_F=20\text{mA}$ )<br>mcd |      | Wavelength<br>nm<br>$\lambda_P$ |
|-------------|----------------|-------------------|----------------|--|------|---------------------------------|
|             |                |                   |                | min.   | typ. |                                 |
| XEMG2885D   | Green          | GaP               | Green Diffused | 50   | 198  | 565                             |



❖ MG



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.