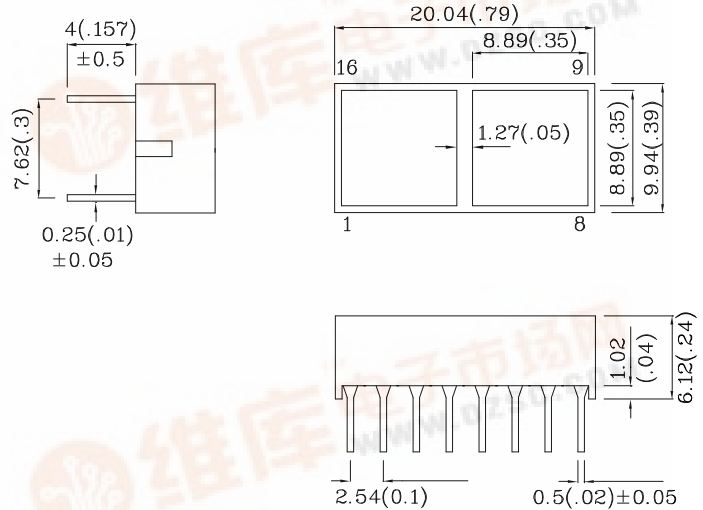
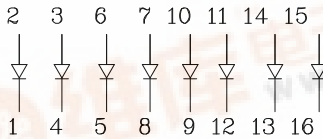


Part Number: **EMRG100M**

8.89mmx8.89mm LED LIGHT BAR

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.
- CATEGORIZED FOR LUMINOUS INTENSITY, YELLOW AND GREEN CATEGORIZED FOR COLOR.
- RoHS COMPLIANT.



Notes:

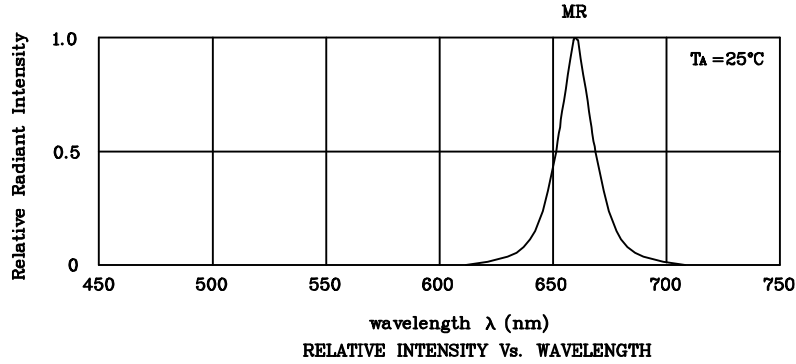
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.

| Absolute Maximum Ratings (TA=25°C) | | MR (GaAlAs) | Unit |
|---|-----------------------|----------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 30 | mA |
| Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width | i _{FS} | 155 | mA |
| Power Dissipation | P _T | 75 | mW |
| Operating Temperature | T _A | -40 ~ +85 | °C |
| Storage Temperature | T _{stg} | -40 ~ +85 | |
| Lead Solder Temperature [2mm below package base] | 260°C For 3~5 Seconds | | |

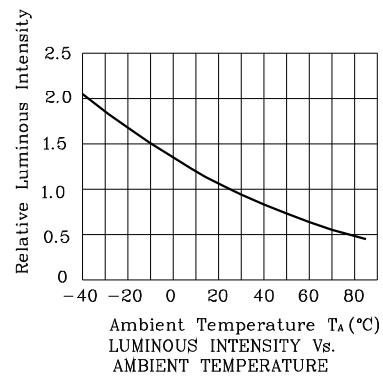
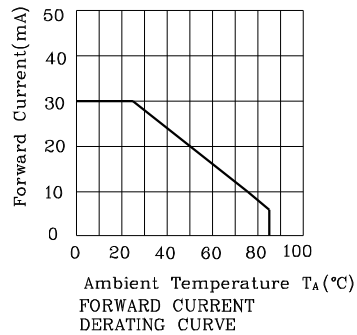
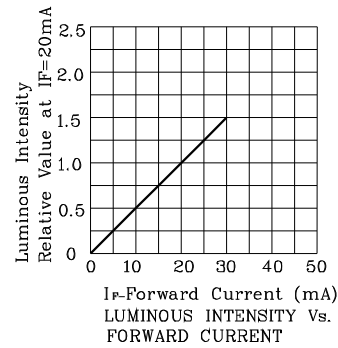
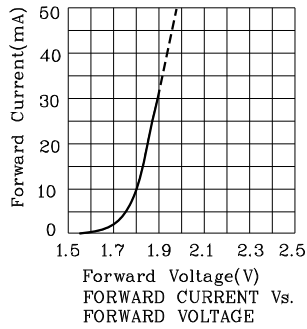
| Operating Characteristics (TA=25°C) | | MR (GaAlAs) | Unit |
|---|----------------|----------------|------|
| Forward Voltage (Typ.) (I _F =20mA) | V _F | 1.85 | V |
| Forward Voltage (Max.) (I _F =20mA) | V _F | 2.5 | V |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength Of Peak Emission (Typ.) (I _F =20mA) | λ P | 660 | nm |
| Wavelength Of Dominant Emission (Typ.) (I _F =20mA) | λ D | 640 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | Δλ | 20 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | C | 45 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (I _F =20mA) mcd | Wavelength nm λ P |
|-------------|----------------|-------------------|----------------|---|-------------------------|
| | | | | min. typ. | |
| EMRG100M | Red | GaAlAs | White Diffused | 50 198 | 660 |

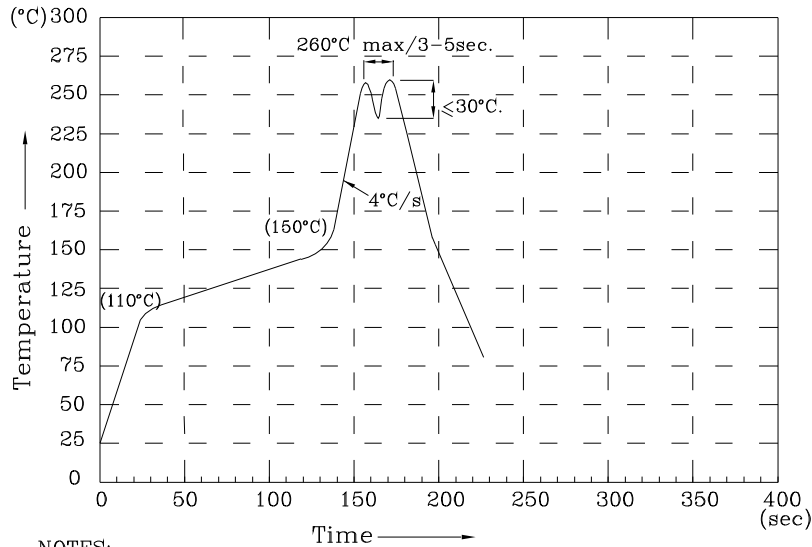




❖ MR



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:

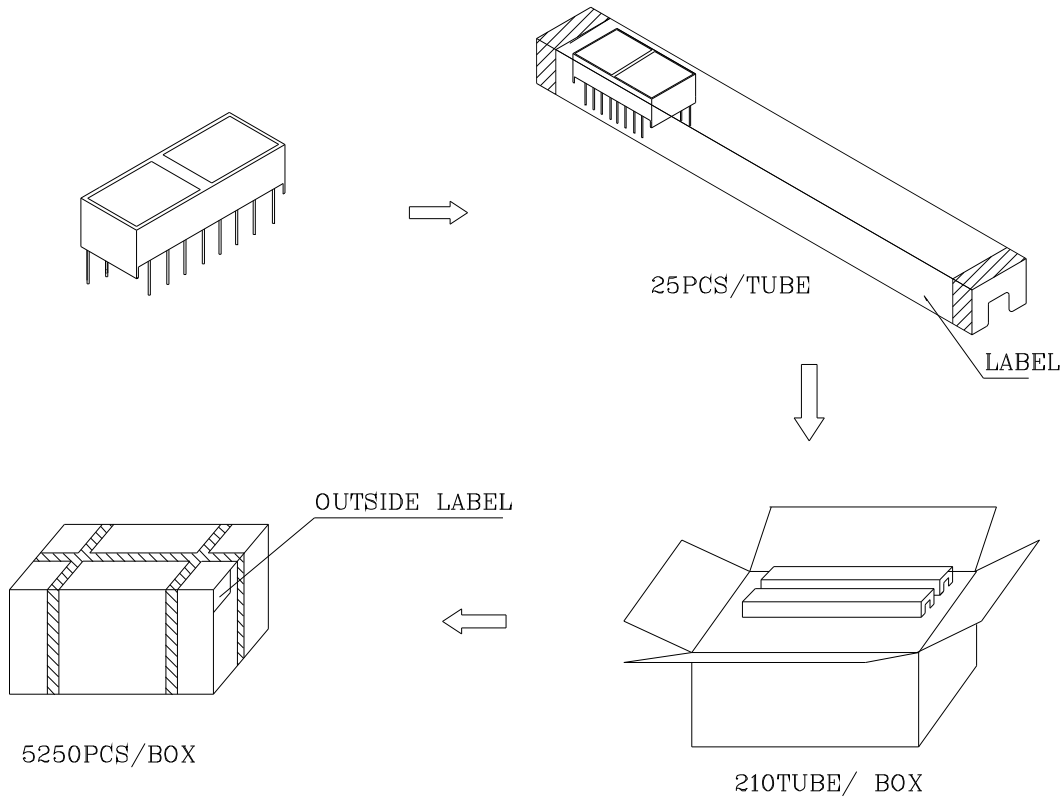
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

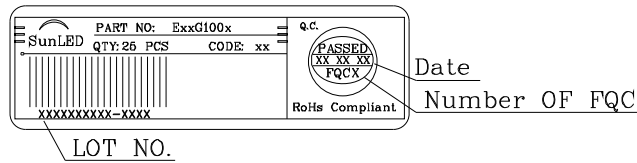
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

EMRG100M



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

