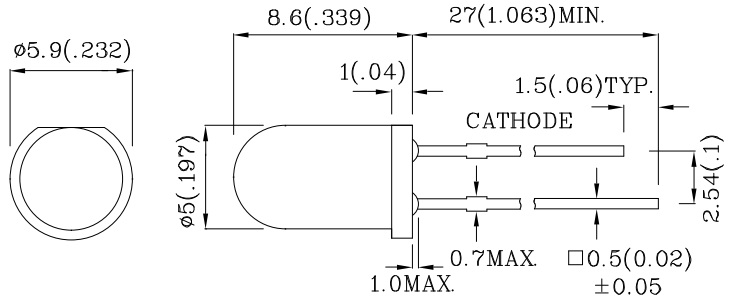


Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 3/4 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.
- RoHS COMPLIANT.



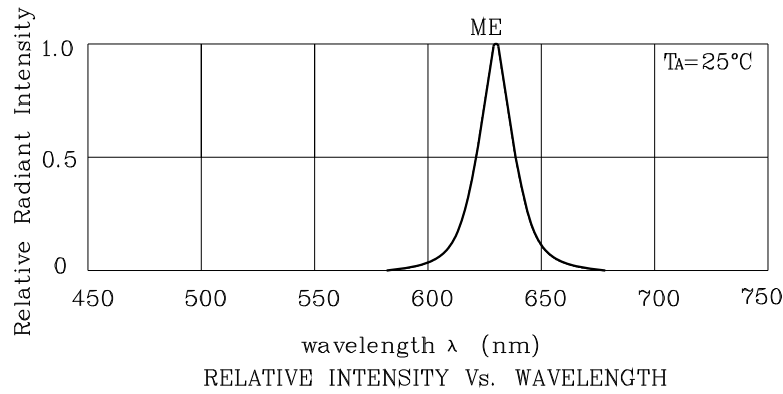
Notes:

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.

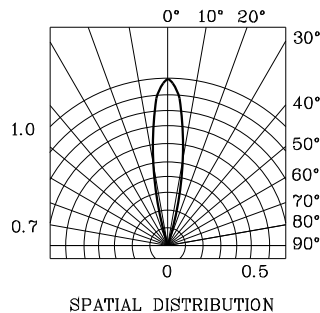
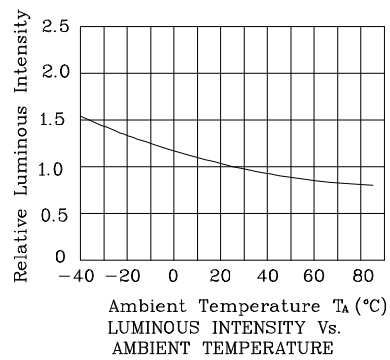
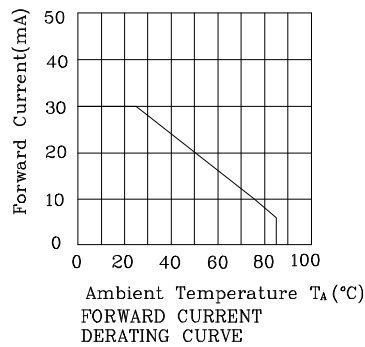
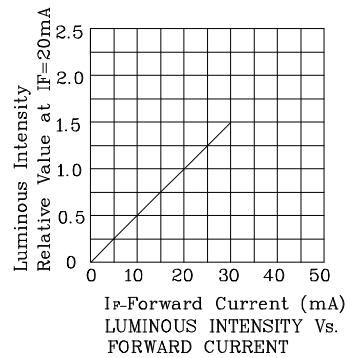
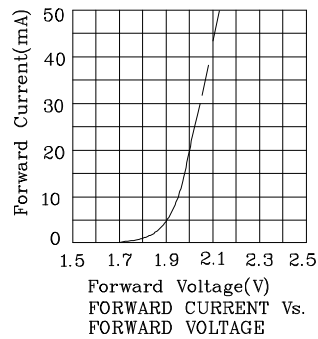
| Absolute maximum ratings (TA=25°C) | | ME (InGaAlP) | Unit |
|--|---------------------|-----------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i _{FS} | 195 | mA |
| Power Dissipation | P _T | 75 | 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 Seconds | | |
| Lead Solder Temperature [5mm Below Package Base] | 260°C For 5 Seconds | | |

| Operating Characteristics (TA=25°C) | | ME (InGaAlP) | Unit |
|---|----------------|-----------------|------|
| Forward Voltage (Typ.) (I _F =20mA) | V _F | 2.0 | 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 | 630 | nm |
| Wavelength of Dominant Emission (Typ.) (I _F =20mA) | λ _D | 621 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | Δλ | 20 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | C | 25 | pF |

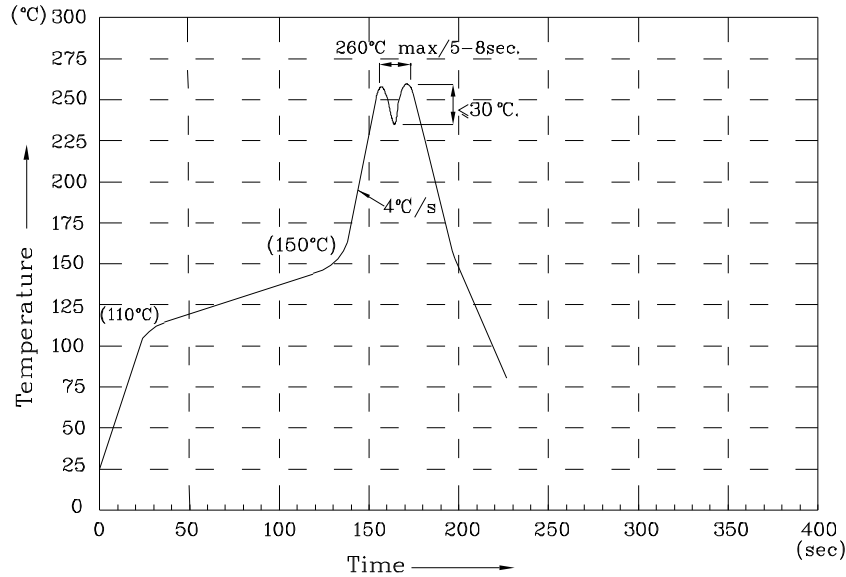
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (I _F =20mA) mcd | | Wavelength nm λ P | Viewing Angle 2θ 1/2 |
|-------------|----------------|-------------------|-------------|---|------|-------------------------|-------------------------|
| | | | | min. | typ. | | |
| XLME12W | Red | InGaAlP | Water Clear | 1500 | 4990 | 630 | 20° |



❖ ME



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:

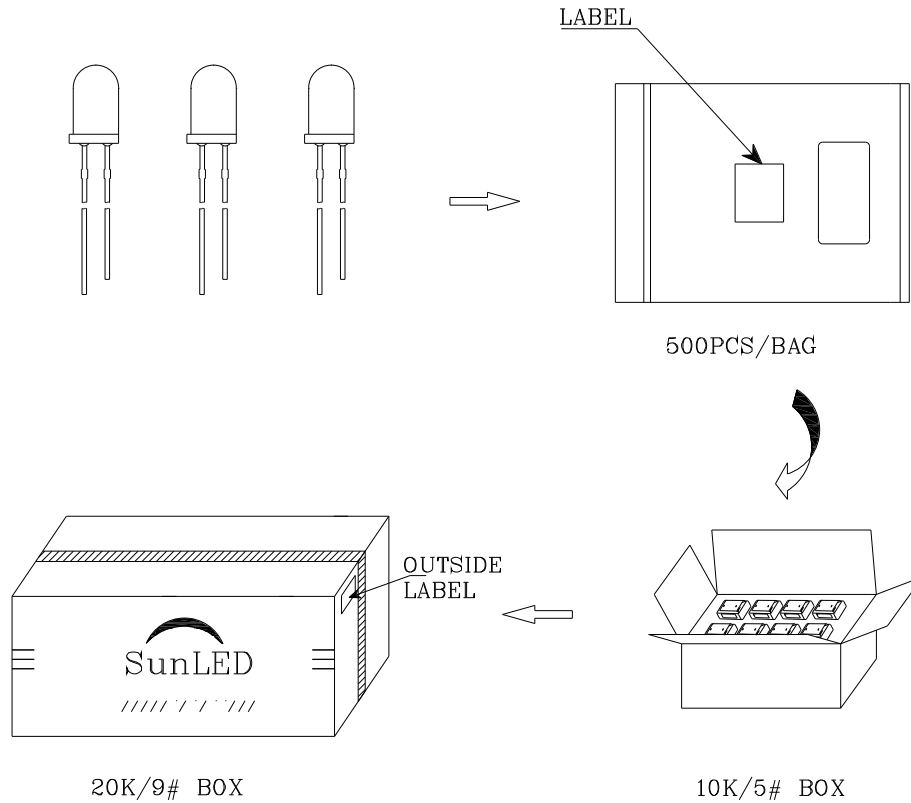

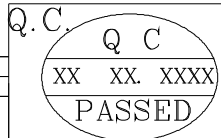
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:


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

XLME12W

| | |
|---|-----------|
| P/NO : XLxx12x | |
| QTY : 500 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  xxxxxxxxxxxxxxxxxxxxxxxxx | |
| RoHS Compliant | |