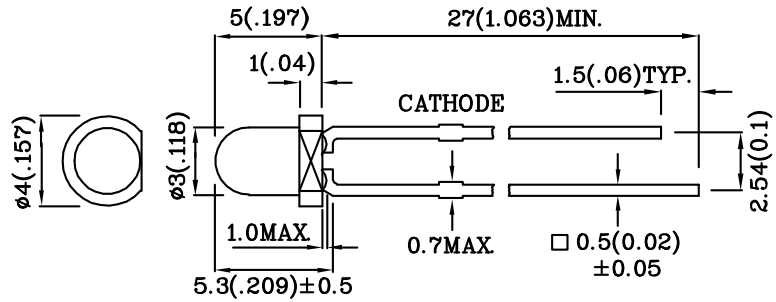


Features

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



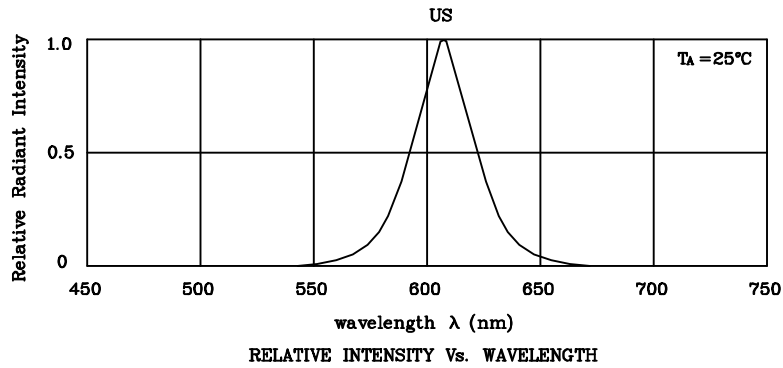
Notes:

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

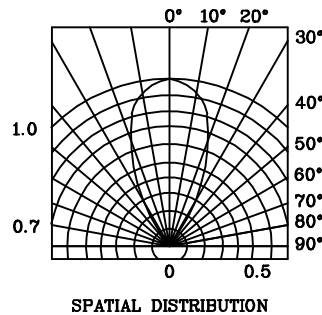
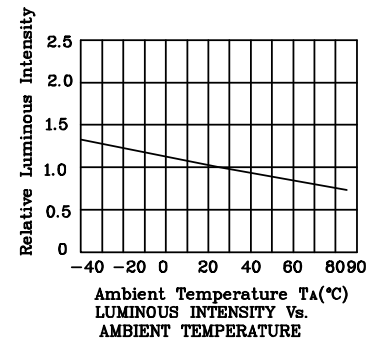
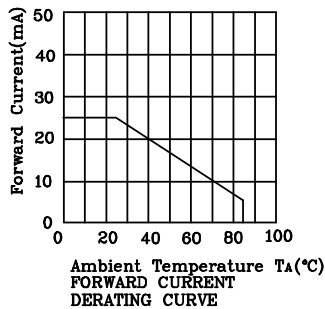
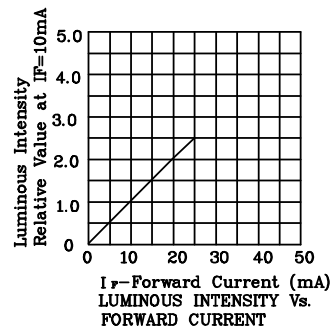
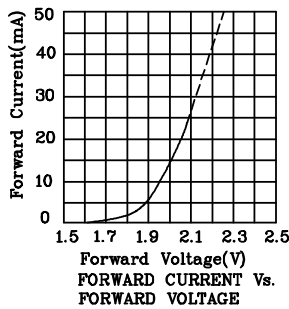
| Absolute maximum ratings (TA=25°C) | | US (GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage | VR | 5 | V |
| Forward Current | IF | 25 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | iFS | 145 | mA |
| Power Dissipation | PT | 105 | mW |
| Operating Temperature | TA | -40 ~ +85 | °C |
| Storage Temperature | Tstg | -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) | | US (GaAsP/GaP) | Unit |
|--|-----------------|-------------------|------|
| Forward Voltage (Typ.) (IF=10mA) | VF | 1.95 | V |
| Forward Voltage (Max.) (IF=10mA) | VF | 2.5 | V |
| Reverse Current (VR=5V) | IR | 10 | uA |
| Wavelength of Peak Emission (IF=10mA) | λP | 607 | nm |
| Wavelength of Dominant Emission (IF=10mA) | λD | 610 | nm |
| Spectral Line Full Width At Half-Maximum (IF=10mA) | $\Delta\lambda$ | 35 | nm |
| Capacitance (VF=0V, f=1MHz) | C | 15 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=10mA) mcd | | Wavelength nm λP | Viewing Angle $2\theta 1/2$ |
|--|-------------------|----------------------|--------------------|---|------|---------------------------------|-----------------------------------|
| | | | | min. | typ. | | |
| XLUS39C | Orange | GaAsP/GaP | Orange Transparent | 18 | 49 | 607 | 50° |
| Published Date : MAY 22,2005 Drawing No : XDSA2359 V3 Checked : B.LLIU P.1/3 | | | | | | | |



❖ US



Remarks:

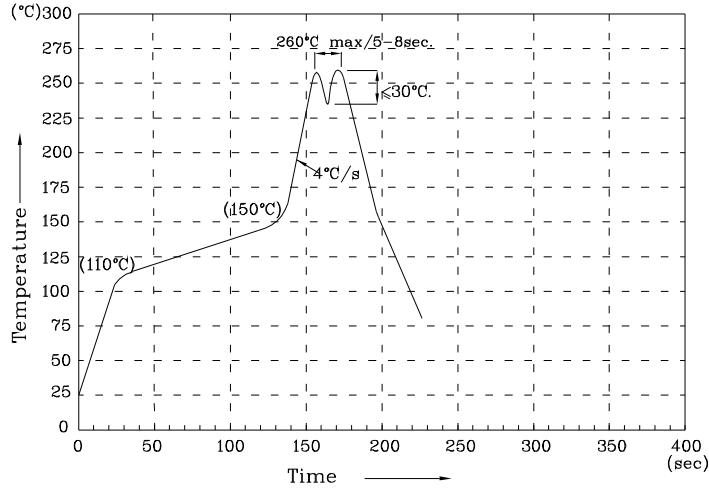
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.

XLUS39C

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.