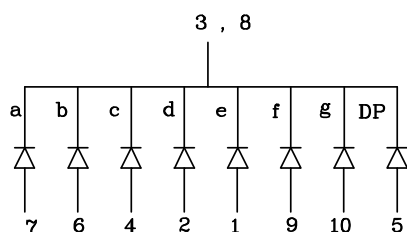


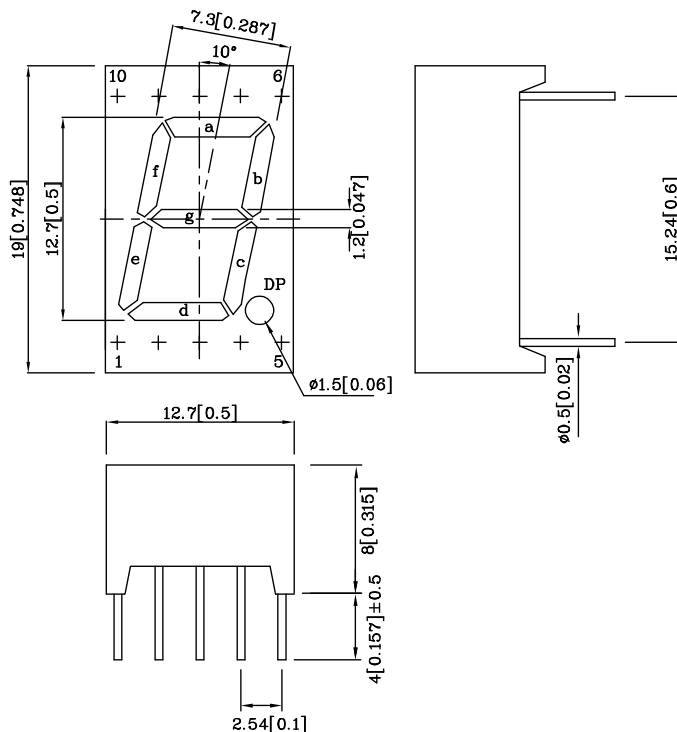
**Features**

- 0.5 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.



Notes:

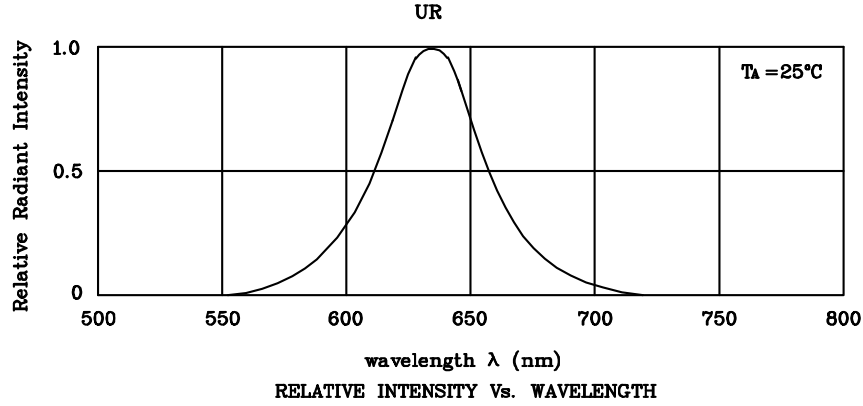
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.



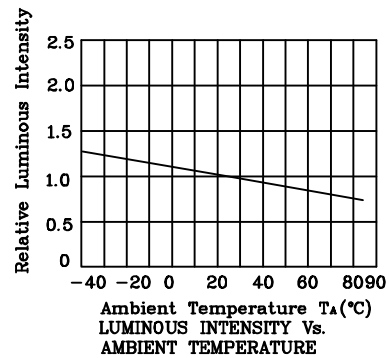
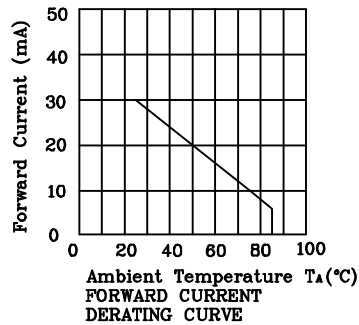
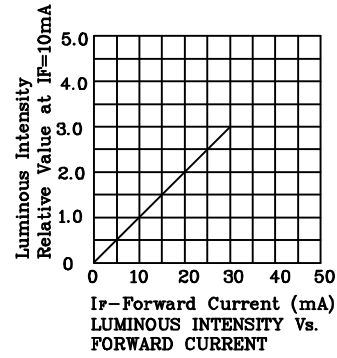
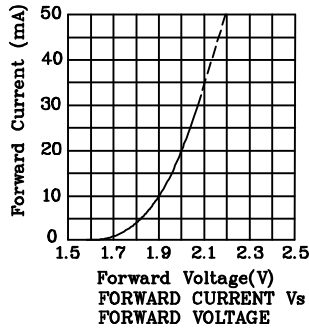
| Absolute Maximum Ratings<br>(TA=25°C)                         |                     | UR<br>(GaAsP/GaP) | Unit |
|---|---------------------|-------------------|------|
| Reverse Voltage   | VR                  | 5                 | V    |
| Forward Current   | IF                  | 30                | mA   |
| Forward Current (peak)<br>1/10Duty Cycle<br>0.1ms Pulse Width | iFS                 | 160               | mA   |
| Power Dissipation   | PT                  | 105               | 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)                   |                 | UR<br>(GaAsP/<br>GaP) | Unit |
|--|-----------------|-----------------------|------|
| Forward Voltage (typ.)<br>(IF=10mA)                      | VF              | 1.9                   | V    |
| Forward Voltage (max.)<br>(IF=10mA)                      | VF              | 2.5                   | V    |
| Reverse Current<br>(VR=5V)                               | IR              | 10                    | uA   |
| Wavelength of Peak<br>Emission<br>(IF=10mA)              | $\lambda P$     | 627                   | nm   |
| Wavelength of Dominant<br>Emission<br>(IF=10mA)          | $\lambda D$     | 625                   | nm   |
| Spectral Line Full Width<br>At Half-Maximum<br>(IF=10mA) | $\Delta\lambda$ | 45                    | nm   |
| Capacitance<br>(VF=0V, f=1MHz)                           | C               | 15                    | pF   |

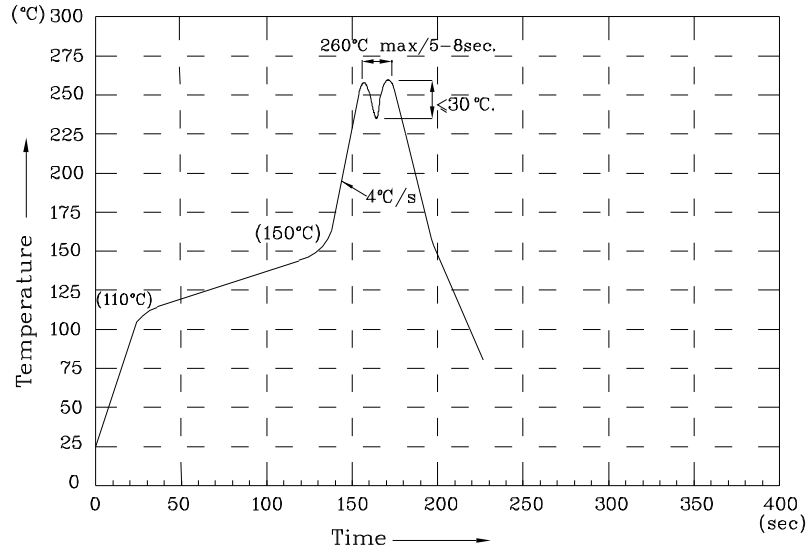
| Part Number | Emitting Color | Emitting Material | Luminous Intensity<br>(IF=10mA)<br>ucd |      | Wavelength<br>nm<br>$\lambda P$ | Description                    |
|-------------|----------------|-------------------|--|------|---------------------------------|--------------------------------|
|             |                |                   | min.                                   | typ. |                                 |                                |
| XDUR12C     | Red            | GaAsP/GaP         | 1900                                   | 7990 | 627                             | Common Cathode,Rt.Hand Decimal |



❖ UR



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.