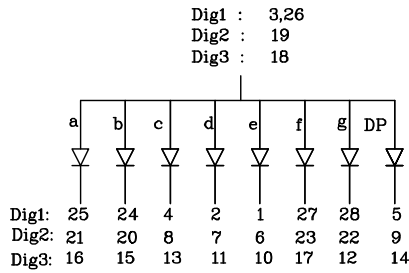
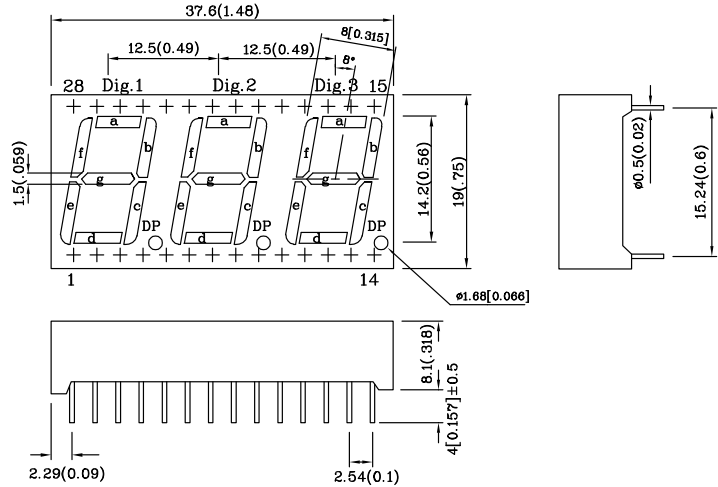


**Features**

- 0.56 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.



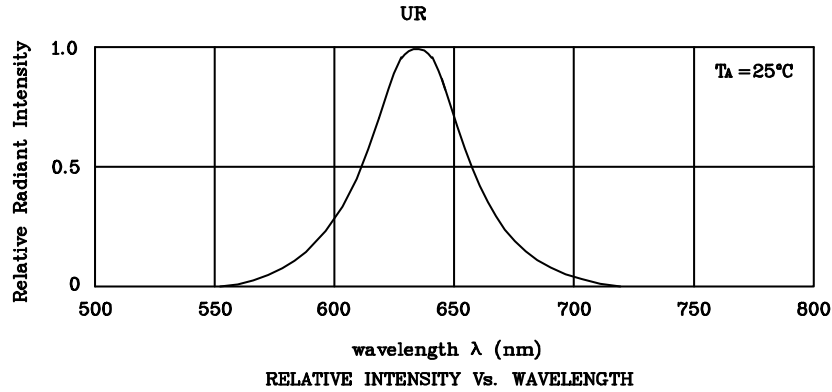
Notes:

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

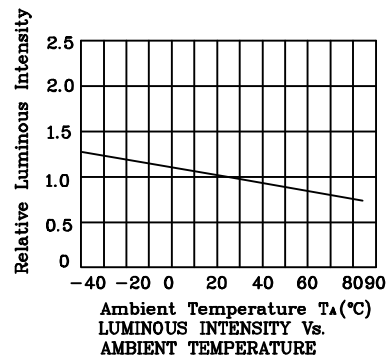
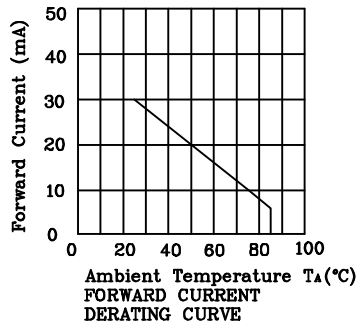
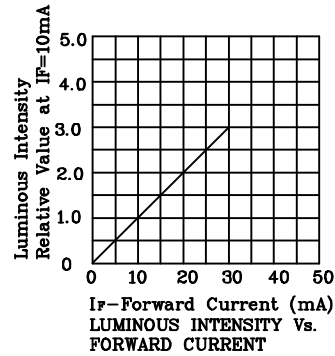
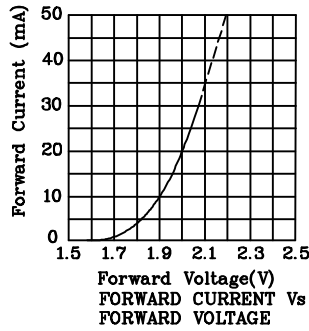
| Absolute maximum ratings<br>(TA=25°C)                          |                     | UR<br>(GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage  | V <sub>R</sub>      | 5                 | V    |
| Forward Current  | I <sub>F</sub>      | 30                | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | i <sub>FS</sub>     | 160               | mA   |
| Power Dissipation  | P <sub>T</sub>      | 105               | mW   |
| Operating Temperature  | T <sub>A</sub>      | -40 ~ +85         | °C   |
| Storage Temperature  | T <sub>stg</sub>    | -40 ~ +85         |      |
| Lead Solder Temperature<br>[2mm Below Package Base]            | 260°C For 5 Seconds |                   |      |

| Operating Characteristics<br>(TA=25°C)                             |                | UR<br>(GaAsP/GaP) | Unit |
|--|----------------|-------------------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                   | V <sub>F</sub> | 1.9               | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)                   | V <sub>F</sub> | 2.5               | V    |
| Reverse Current<br>(V <sub>R</sub> =5V)                            | I <sub>R</sub> | 10                | uA   |
| Wavelength of Peak Emission<br>(I <sub>F</sub> =10mA)              | λ <sub>P</sub> | 627               | nm   |
| Wavelength of Dominant Emission<br>(I <sub>F</sub> =10mA)          | λ <sub>D</sub> | 625               | nm   |
| Spectral Line Full Width At Half-Maximum<br>(I <sub>F</sub> =10mA) | Δλ             | 45                | nm   |
| Capacitance<br>(V <sub>F</sub> =0V, f=1MHz)                        | C              | 15                | pF   |

| Part Number  | Emitting Color | Emitting Material | Luminous Intensity<br>(I <sub>F</sub> =10mA)<br>ucd |      | Wavelength<br>nm<br>λ <sub>P</sub> | Description                    |
|--|----------------|-------------------|---|------|------------------------------------|--------------------------------|
|  |                |                   | min.  | typ. |                                    |                                |
| XDUR14A3-A   | Red            | GaAsP/GaP         | 1200  | 6390 | 627                                | Common Anode. Rt. Hand Decimal |
| Published Date : JUN 01,2005      Drawing No : XDSA1052      V4      Checked : Shin Chi      P.1/3 |                |                   |   |      |                                    |                                |



❖ UR



Remarks:

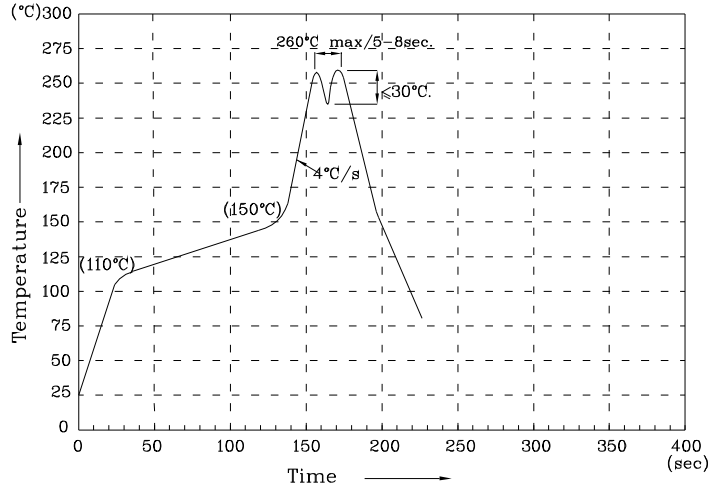
If special sorting is required (e.g. binning based on forward voltage, luminous intensity or wavelength), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.

**XDUR14A3-A**

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.