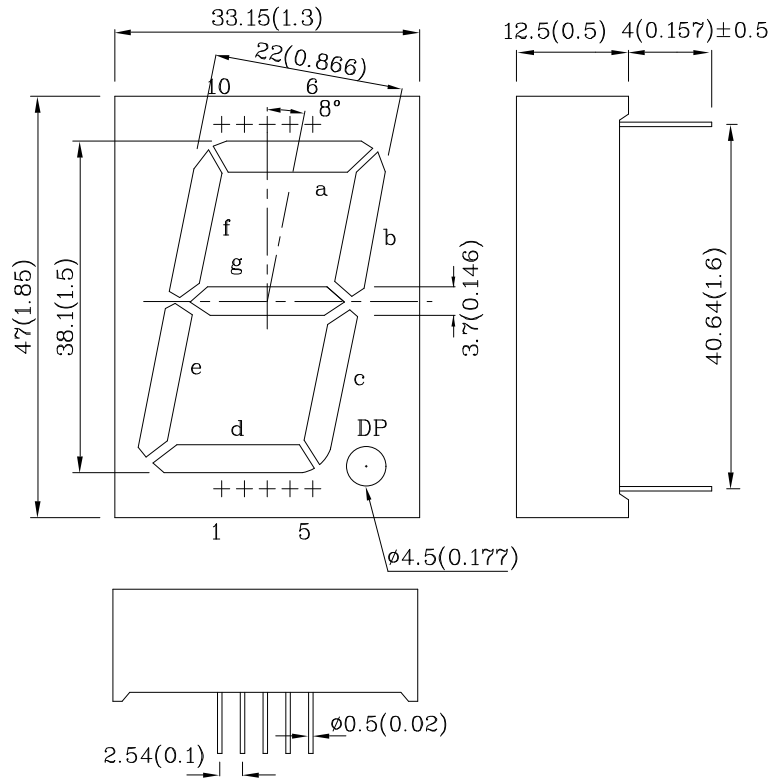
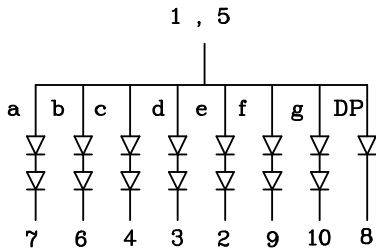


**Features**

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



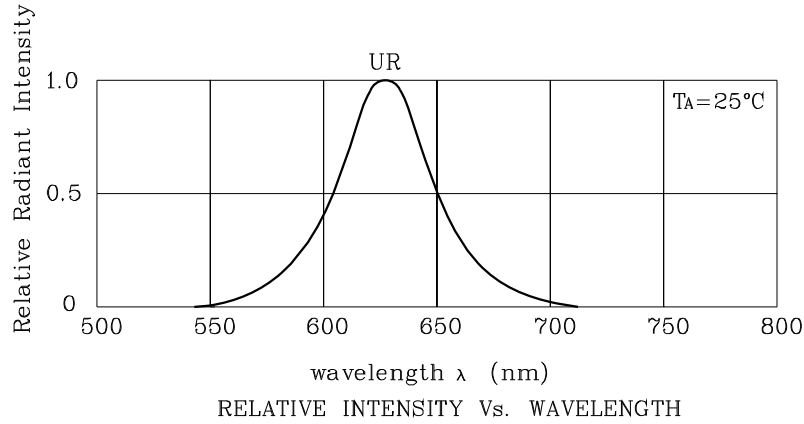
Notes:

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

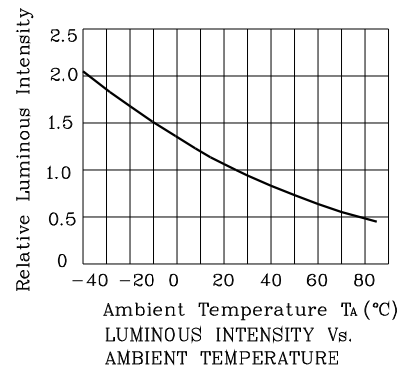
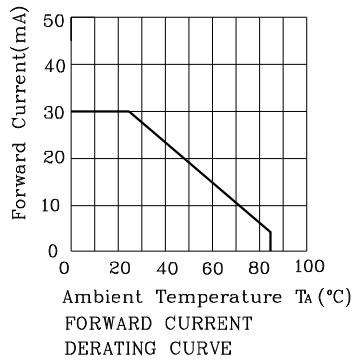
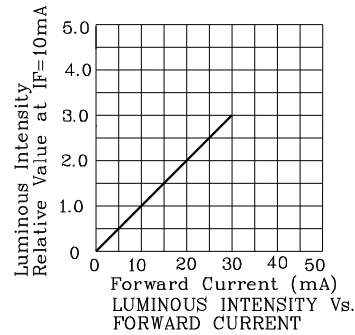
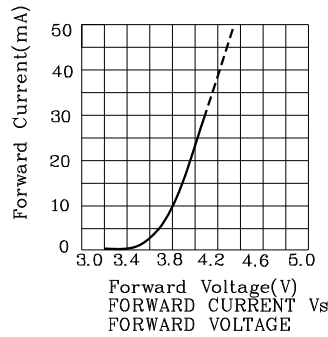
| Absolute Maximum Ratings<br>(TA=25°C)   |                       | UR<br>(GaAsP/GaP) | Unit |
|---|-----------------------|-------------------|------|
| Reverse Voltage<br>Per Segment or (Dp)  | V <sub>R</sub>        | 10(5)             | V    |
| Forward Current<br>Per Segment or (Dp)  | I <sub>F</sub>        | 30(30)            | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width<br>Per Segment or (Dp) | i <sub>FS</sub>       | 160(160)          | mA   |
| Power Dissipation<br>Per Segment or (Dp)  | P <sub>T</sub>        | 150<br>(75)       | 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 3-5 Seconds |                   |      |

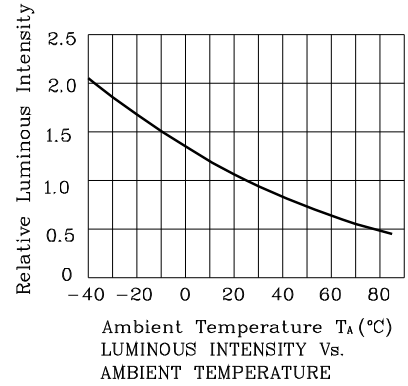
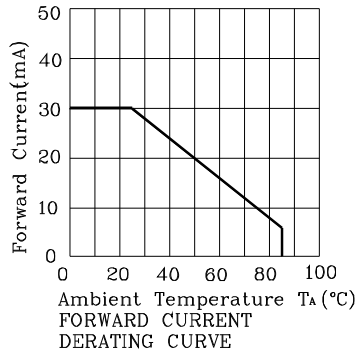
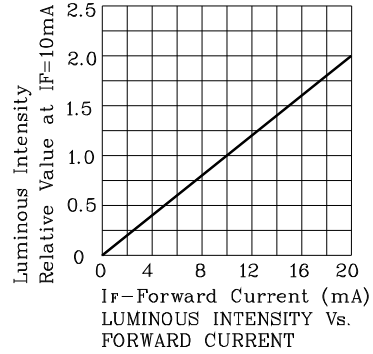
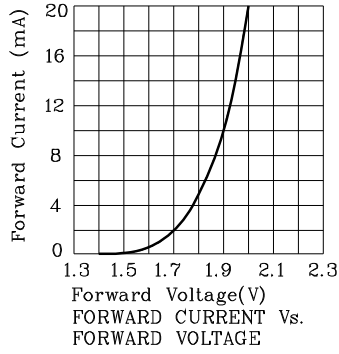
| Operating Characteristics<br>(TA=25°C)                                       |                | UR<br>(GaAsP/GaP) | Unit |
|--|----------------|-------------------|------|
| Forward Voltage (Typ.)<br>Per Segment or (Dp )<br>(I <sub>F</sub> =10mA)     | V <sub>F</sub> | 3.8<br>(1.9)      | V    |
| Forward Voltage (Max.)<br>Per Segment or (Dp)<br>(I <sub>F</sub> =10mA)      | V <sub>F</sub> | 5.0<br>(2.5)      | V    |
| Reverse Current<br>Per Segment or (Dp)<br>(V <sub>R</sub> =10V(5V))(Max.)    | I <sub>R</sub> | 10<br>(10)        | uA   |
| Wavelength of Peak<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)              | λ <sub>P</sub> | 627               | nm   |
| Wavelength of Dominant<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)          | λ <sub>D</sub> | 625               | nm   |
| Spectral Line Full Width At<br>Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | Δλ             | 45                | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                           | C              | 15                | pF   |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity (IF=10mA)<br>ucd |       | Wavelength<br>nm<br>$\lambda$ P | Description                    |
|-------------|----------------|-------------------|-------------------------------------|-------|---------------------------------|--------------------------------|
|             |                |                   | min.                                | typ.  |                                 |                                |
| DUR38A      | Red            | GaAsP/GaP         | 3000                                | 15990 | 627                             | Common Anode, Rt. Hand Decimal |

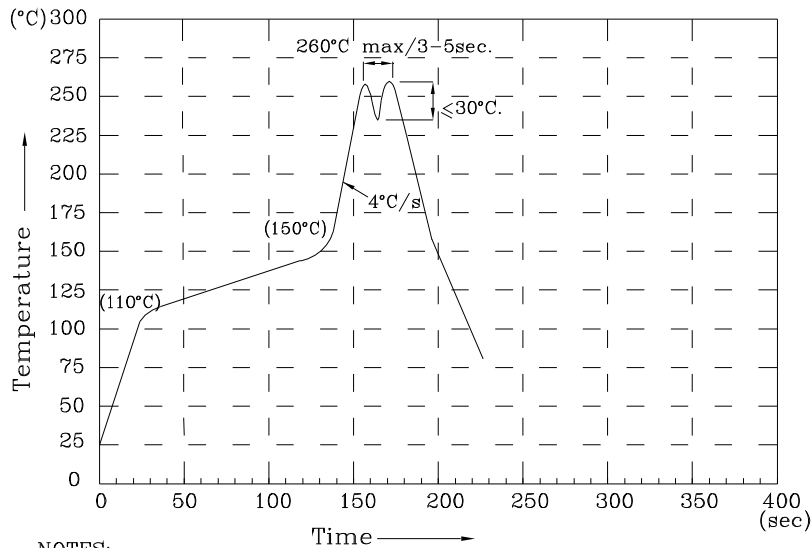


❖ UR





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:

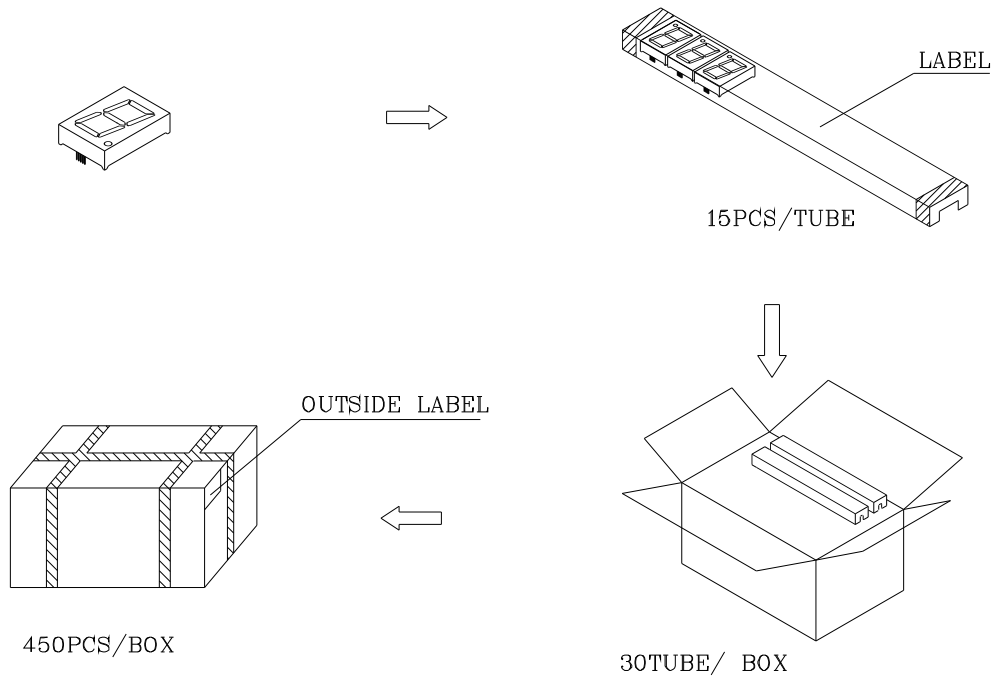
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

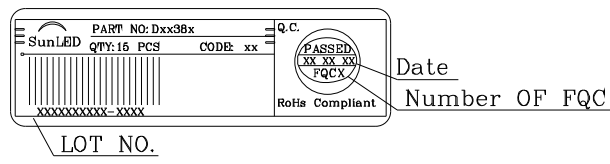
Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**DUR38A**



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

