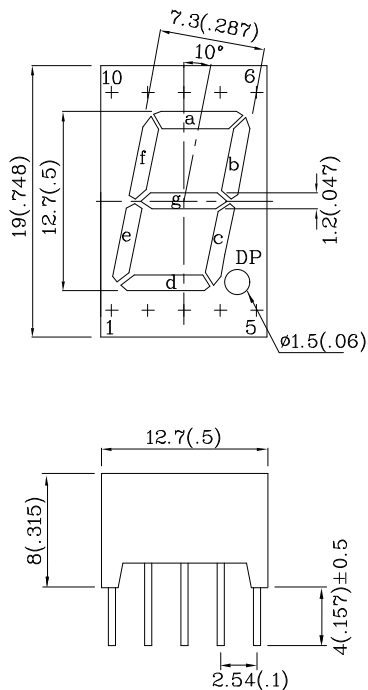


- 0.5 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.

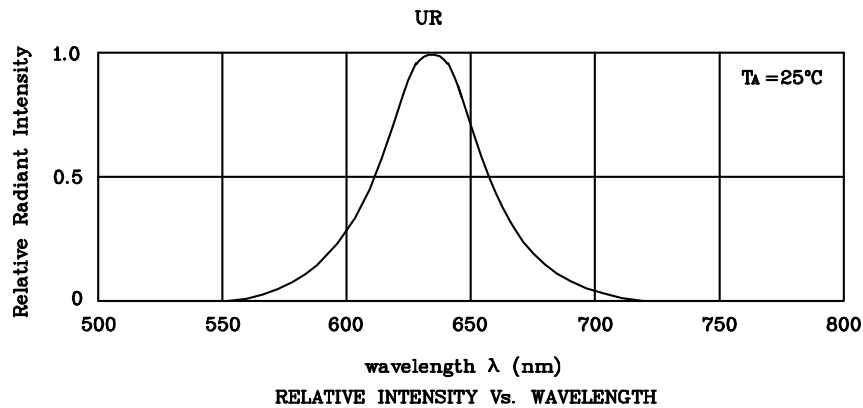


1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
3. Specifications are subject to change without notice.

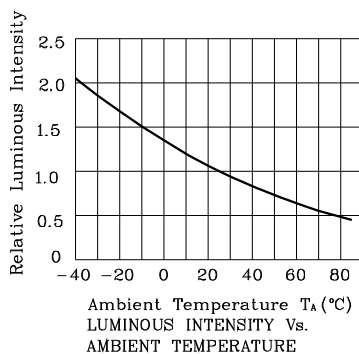
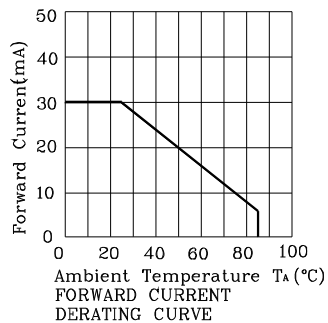
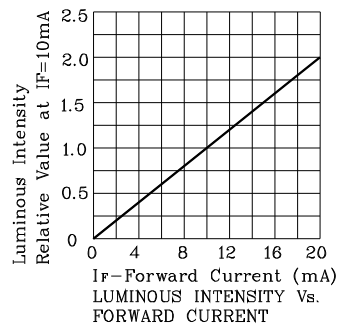
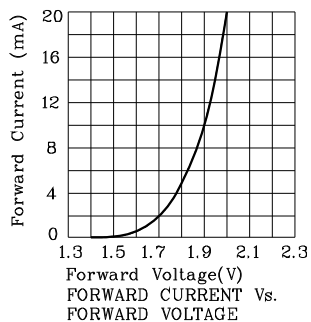
| Absolute Maximum Ratings<br>(TA=25°C)                         |                        | UR<br>(GaAsP/<br>GaP) | Unit |
|---------------------------------------------------------------|------------------------|-----------------------|------|
| Reverse Voltage                                               | 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                     | 75                    | mW   |
| Operating Temperature                                         | TA                     | -40 ~ +85             | °C   |
| Storage Temperature                                           | Tstg                   | -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/<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 (Max.)<br>(VR=5V)                               | IR              | 10                    | uA   |
| Wavelength Of Peak<br>Emission (Typ.)<br>(IF=10mA)              | $\lambda$ P     | 627                   | nm   |
| Wavelength Of Dominant<br>Emission (Typ.)<br>(IF=10mA)          | $\lambda$ D     | 625                   | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(IF=10mA) | $\Delta\lambda$ | 45                    | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                           | C               | 15                    | pF   |

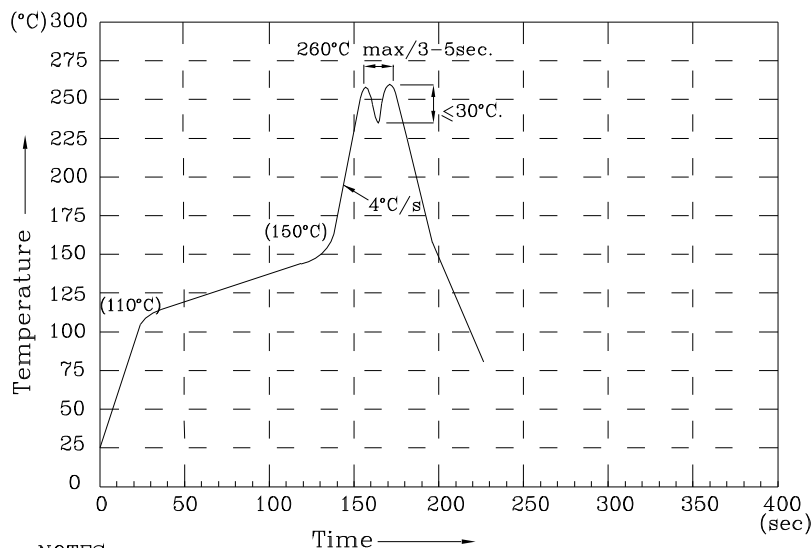
| Part Number                  | Emitting Color | Emitting Material     | Luminous Intensity (IF=10mA)<br>ucd |      | Wavelength<br>nm<br>$\lambda$ P | Description                    |
|------------------------------|----------------|-----------------------|-------------------------------------|------|---------------------------------|--------------------------------|
|                              |                |                       | min.                                | typ. |                                 |                                |
| DUR12C                       | Red            | GaAsP/GaP             | 1900                                | 7990 | 627                             | Common Cathode,Rt.Hand Decimal |
|                              |                |                       |                                     |      |                                 |                                |
|                              |                |                       |                                     |      |                                 |                                |
| Published Date : MAR 04,2008 |                | Drawing No : SDSA2067 |                                     |      | V4                              | Checked : B.L.LIU              |
| P.1/4                        |                |                       |                                     |      |                                 |                                |



❖ **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:

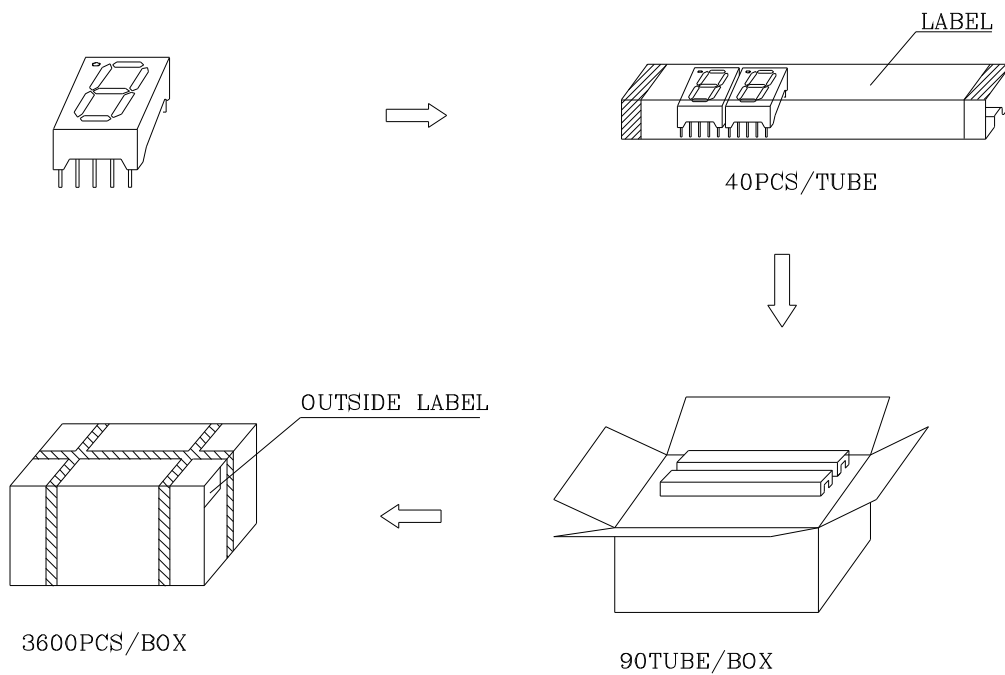
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**DUR12C**



Inside LABEL Paste On The IC-tube

|                 |                 |                           |
|-----------------|-----------------|---------------------------|
| SunLED          | PART NO: Dxx12x | Q.C.                      |
| QTY: 40 PCS     | CODE: xx        | PASSED<br>XX XX XX<br>FQC |
| XXXXXXXXXX-XXXX |                 | Date                      |
| LOT NO.         |                 | Number OF FQC             |
| RoHS Compliant  |                 |                           |

Outside LABEL Paste On The Box

|              |      |      |          |
|--------------|------|------|----------|
| BOX Number   | XXXX | XXXX | BIN CODE |
| Dxx12x       | 3600 | XX   |          |
| Number OF QA |      |      |          |
| Date         |      |      |          |
|              |      |      |          |