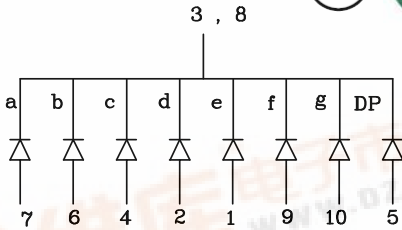


Part Number: **DUY12C**

12.7mm (0.5") SINGLE DIGIT NUMERIC DISPLAY

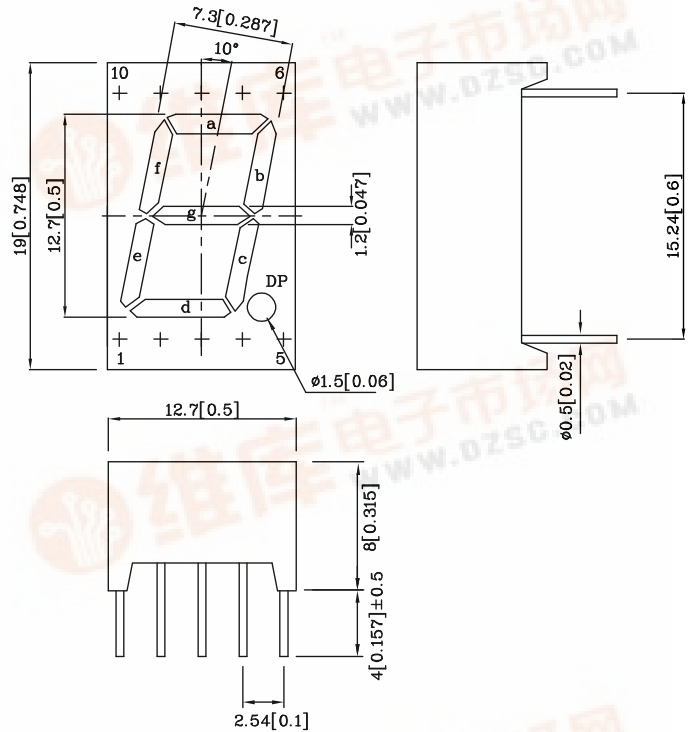
**Features**

- 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.
3. Specifications are subject to change without notice.

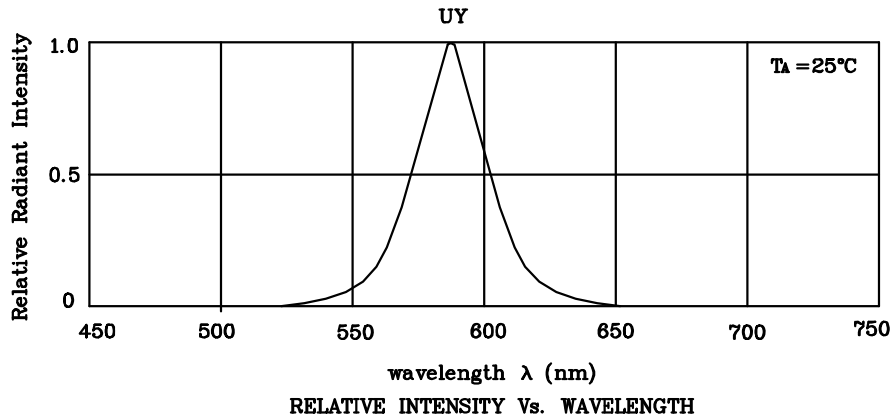


| Absolute Maximum Ratings<br>(TA=25°C)                         |                        | UY<br>(GaAsP/GaP) | Unit |
|---|------------------------|-------------------|------|
| Reverse Voltage   | VR                     | 5                 | V    |
| Forward Current   | IF                     | 30                | mA   |
| Forward Current (peak)<br>1/10Duty Cycle<br>0.1ms Pulse Width | iFS                    | 140               | 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 |                   |      |

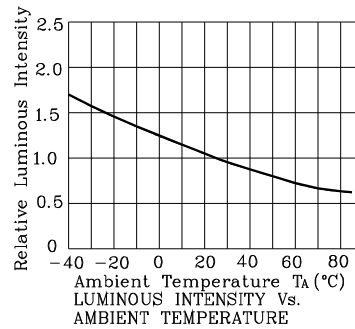
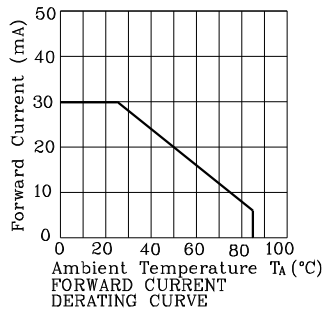
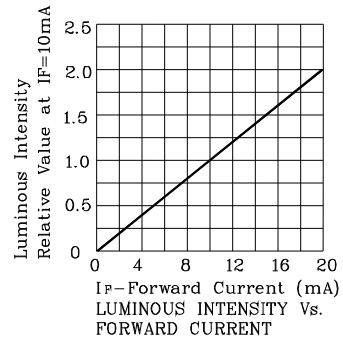
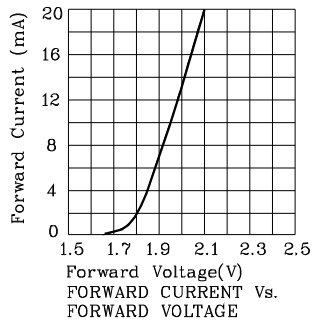
| Operating Characteristics<br>(TA=25°C)                          |                 | UY<br>(GaAsP/GaP) | Unit |
|---|-----------------|-------------------|------|
| Forward Voltage (Typ.)<br>(IF=10mA)                             | VF              | 1.95              | V    |
| Forward Voltage (Max.)<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)              | $\lambda P$     | 590               | nm   |
| Wavelength Of Domi-<br>nant Emission (Typ.)<br>(IF=10mA)        | $\lambda D$     | 588               | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(IF=10mA) | $\Delta\lambda$ | 35                | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                           | C               | 20                | pF   |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity<br>(IF=10mA)<br>ucd | Wavelength<br>nm<br>$\lambda P$ | Description                    |
|-------------|----------------|-------------------|--|---------------------------------|--------------------------------|
| DUY12C      | Yellow         | GaAsP/GaP         | min. 1200<br>typ. 4690                 | 590                             | Common Cathode,Rt.Hand Decimal |

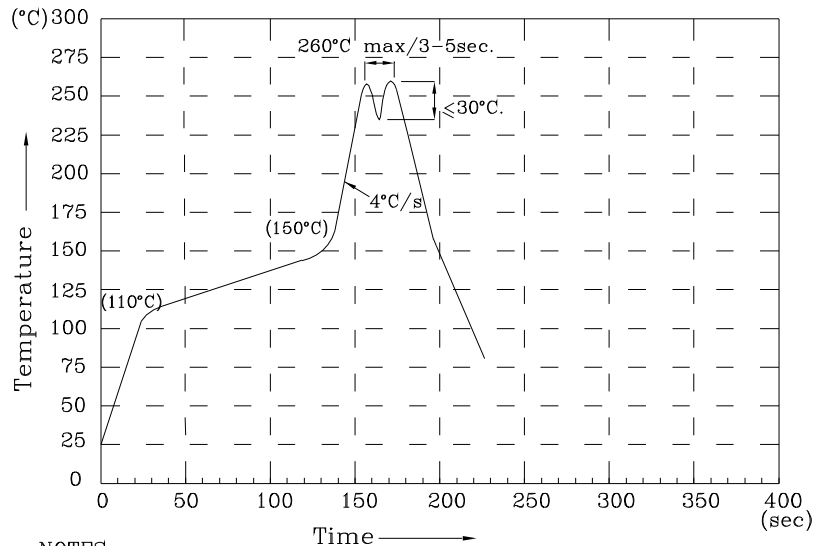




❖ UY



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:

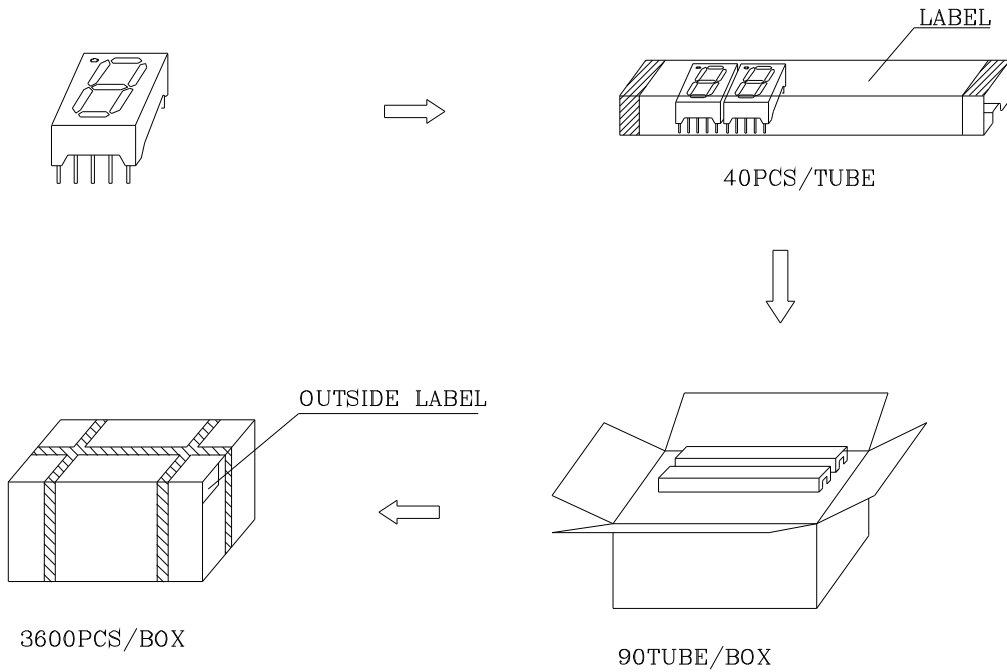
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

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

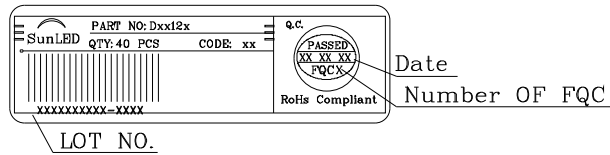
Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**DUY12C**



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

