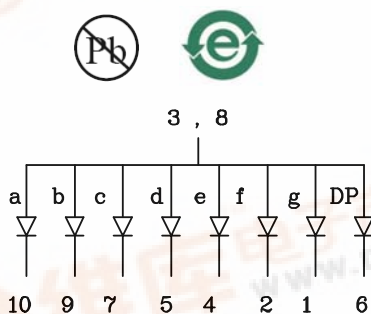


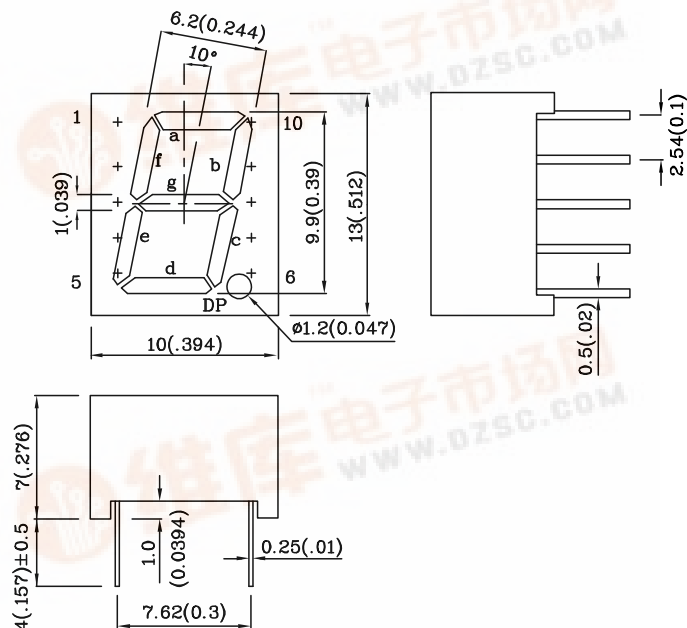
## Features

- 0.39 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:

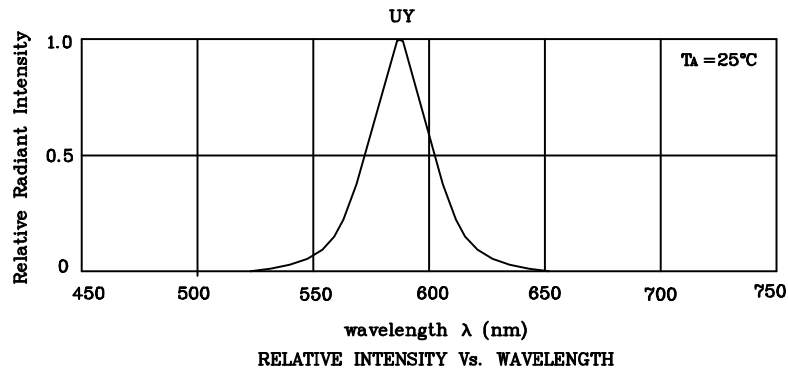
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.
3. Specifications are subject to change without notice.



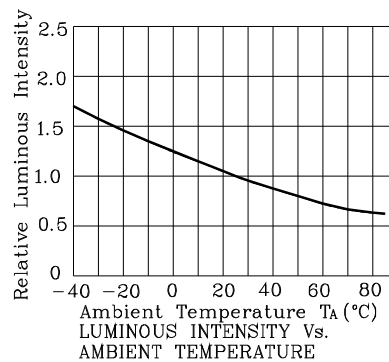
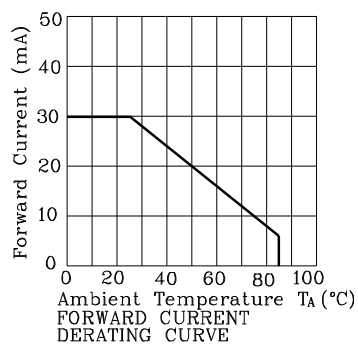
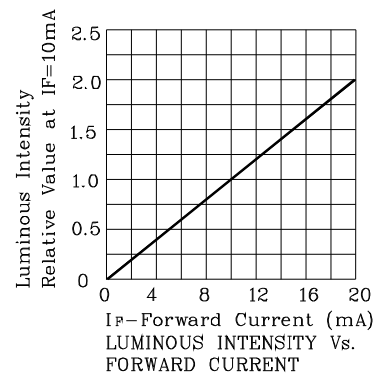
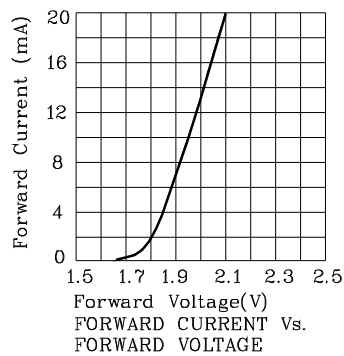
| Absolute Maximum Ratings<br>(TA=25°C)                          |                       | UY<br>(GaAsP/GaP) | Unit |
|----------------------------------------------------------------|-----------------------|-------------------|------|
| Reverse Voltage                                                | VR                    | 5                 | V    |
| Forward Current                                                | IF                    | 30                | mA   |
| Forward Current (Peak)<br>1/10 Duty 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>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 1.95              | V    |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =10mA)                             | V <sub>F</sub> | 2.5               | V    |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                               | I <sub>R</sub> | 10                | uA   |
| Wavelength Of Peak<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)              | λ <sub>P</sub> | 590               | nm   |
| Wavelength Of Dominant<br>Emission (Typ.)<br>(I <sub>F</sub> =10mA)          | λ <sub>D</sub> | 588               | nm   |
| Spectral Line Full Width At<br>Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | Δλ             | 35                | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                           | C              | 20                | pF   |

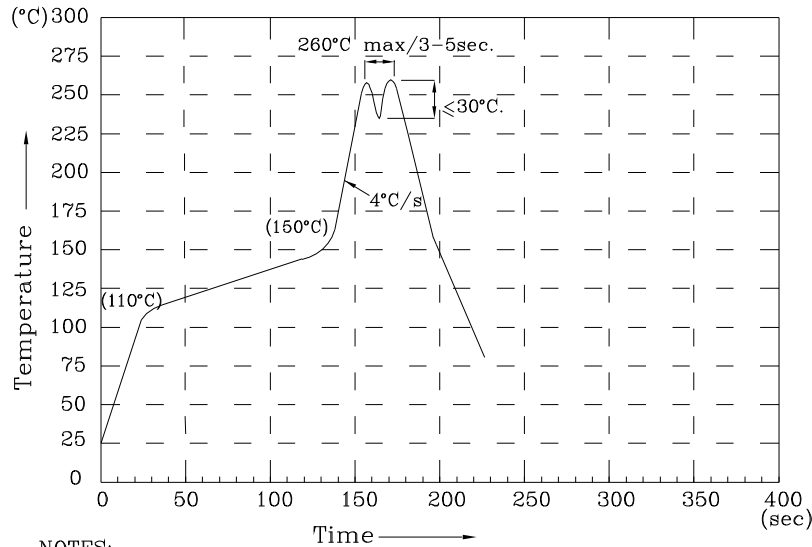
| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Luminous<br>Intensity<br>(I <sub>F</sub> =10mA)<br>ucd | Wavelength<br>nm<br>λ <sub>P</sub> | Description                     |
|----------------|-------------------|----------------------|--------------------------------------------------------|------------------------------------|---------------------------------|
| DUY08A         | Yellow            | GaAsP/GaP            | min. 800<br>typ. 2990                                  | 590                                | Common Anode, 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:

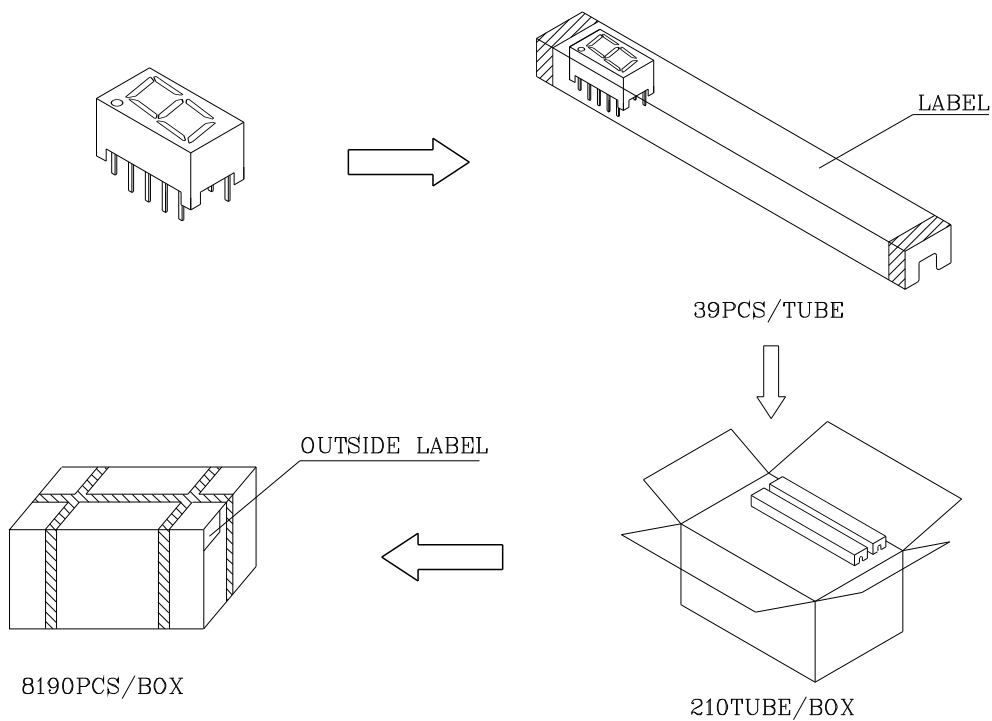
If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

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**

**DUY08A**



Inside LABEL Paste On The IC-tube

|                |                 |               |
|----------------|-----------------|---------------|
| SunLED         | PART NO: Dxx08x | Q.C.          |
| QTY: 39 PCS    | CODE: xx        | PASSED        |
| XXXXXXXX-XXXX  |                 | xx xx xx      |
| LOT NO.        |                 | FQC           |
| RoHS Compliant |                 | Date          |
|                |                 | Number OF FQC |

Outside LABEL Paste On The Box

|              |      |      |          |
|--------------|------|------|----------|
| BOX Number   | xxxx | xxxx | BIN CODE |
| Dxx08x       | 8190 | xx   |          |
| Number OF QA |      |      |          |
| Date         |      |      |          |
|              |      |      |          |