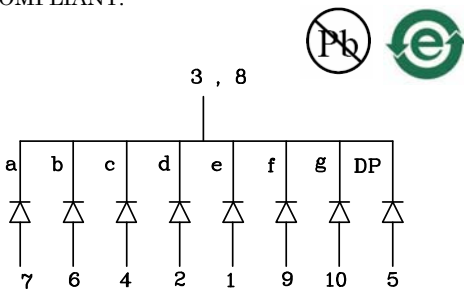


Features

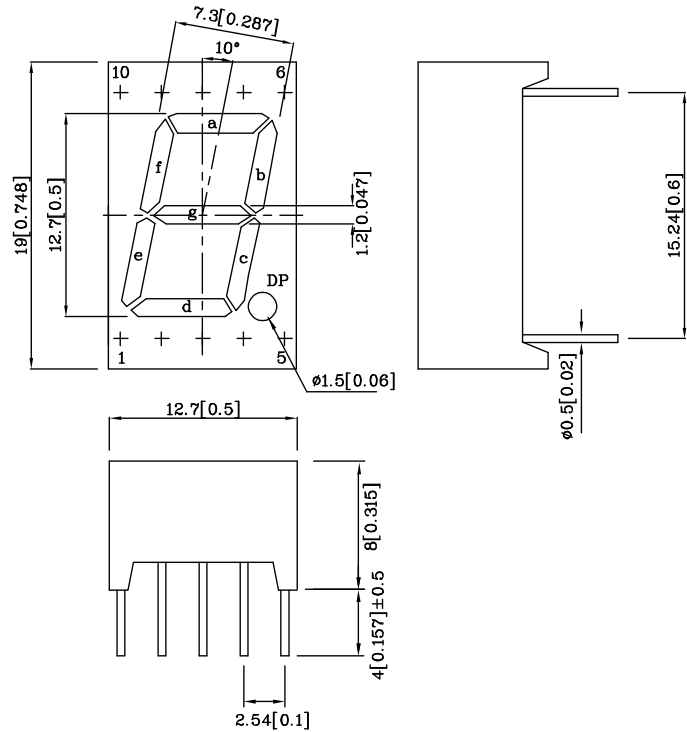
- 0.5 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.



Notes:

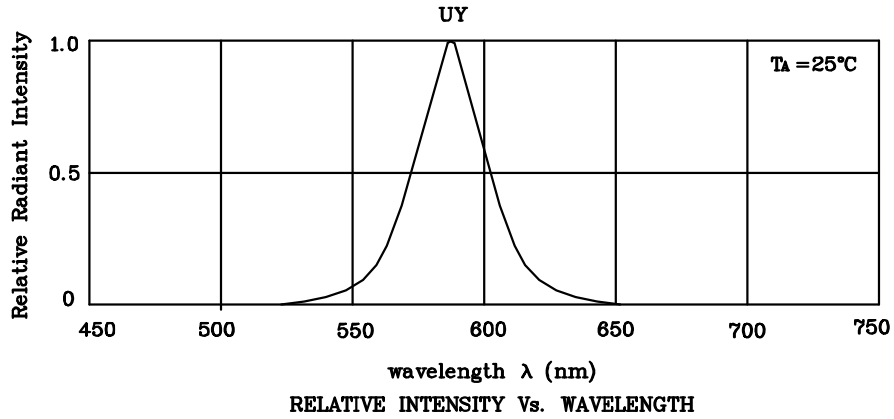
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.

| Absolute Maximum Ratings ($T_A=25^\circ\text{C}$) | | UY (GaAsP/GaP) | Unit |
|---|------------------------|-------------------|------|
| Reverse Voltage | V_R | 5 | V |
| Forward Current | I_F | 30 | mA |
| Forward Current (peak) 1/10Duty Cycle 0.1ms Pulse Width | i_{FS} | 140 | mA |
| Power Dissipation | P_T | 75 | mW |
| Operating Temperature | T_A | -40 ~ +85 | °C |
| Storage Temperature | T_{stg} | -40 ~ +85 | |
| Lead Solder Temperature [2mm below package base] | 260°C For 3~ 5 Seconds | | |

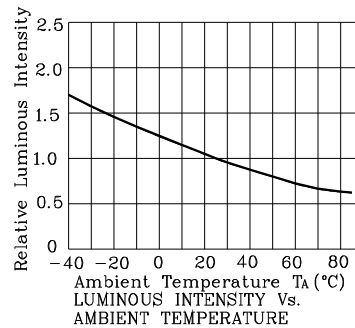
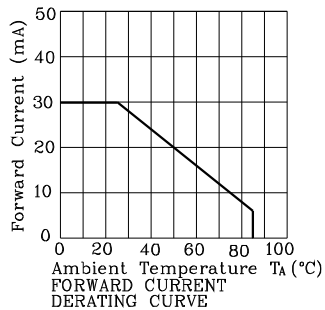
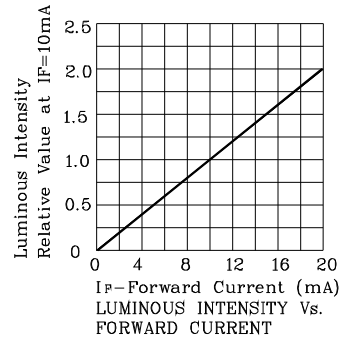
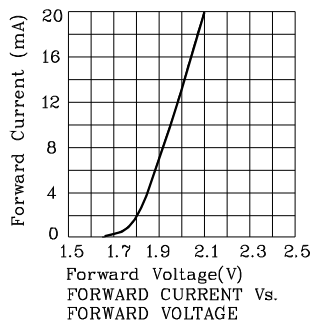


| Operating Characteristics ($T_A=25^\circ\text{C}$) | | UY (GaAsP/GaP) | Unit |
|---|-----------------|-------------------|------|
| Forward Voltage (Typ.) ($I_F=10\text{mA}$) | V_F | 1.95 | V |
| Forward Voltage (Max.) ($I_F=10\text{mA}$) | V_F | 2.5 | V |
| Reverse Current (Max.) ($V_R=5\text{V}$) | I_R | 10 | uA |
| Wavelength Of Peak Emission (Typ.) ($I_F=10\text{mA}$) | λ_P | 590 | nm |
| Wavelength Of Domi- nant Emission (Typ.) ($I_F=10\text{mA}$) | λ_D | 588 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$) | $\Delta\lambda$ | 35 | nm |
| Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$) | C | 20 | pF |

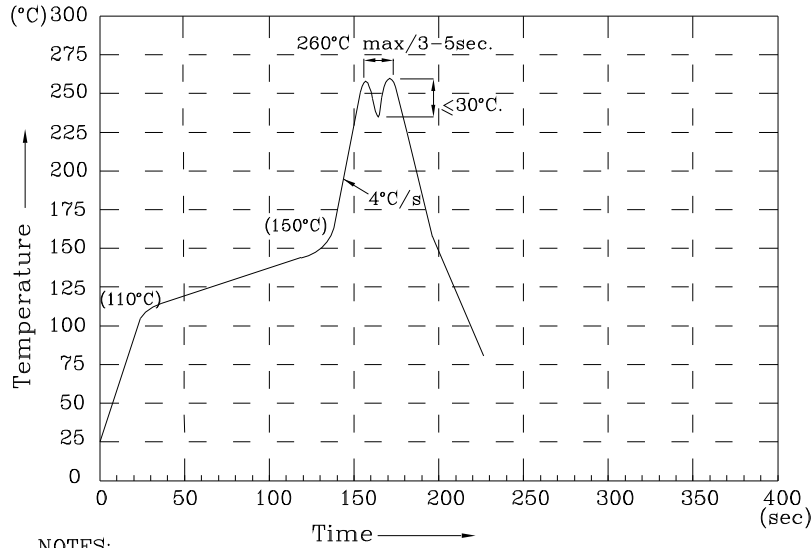
| Part Number | Emitting Color | Emitting Material | Luminous Intensity ($I_F=10\text{mA}$) ucd | Luminous Intensity ($I_F=10\text{mA}$) ucd | Wavelength nm λ_P | Description |
|---|----------------|-------------------|--|--|---------------------------------|--------------------------------|
| | | | min. | typ. | | |
| DUY12C | Yellow | GaAsP/GaP | 1200 | 4690 | 590 | Common Cathode,Rt.Hand Decimal |
| Published Date : MAR 05,2008 Drawing No:SDSA2072 V4 Checked : B.L.LIU P.1/4 | | | | | | |



❖ **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:

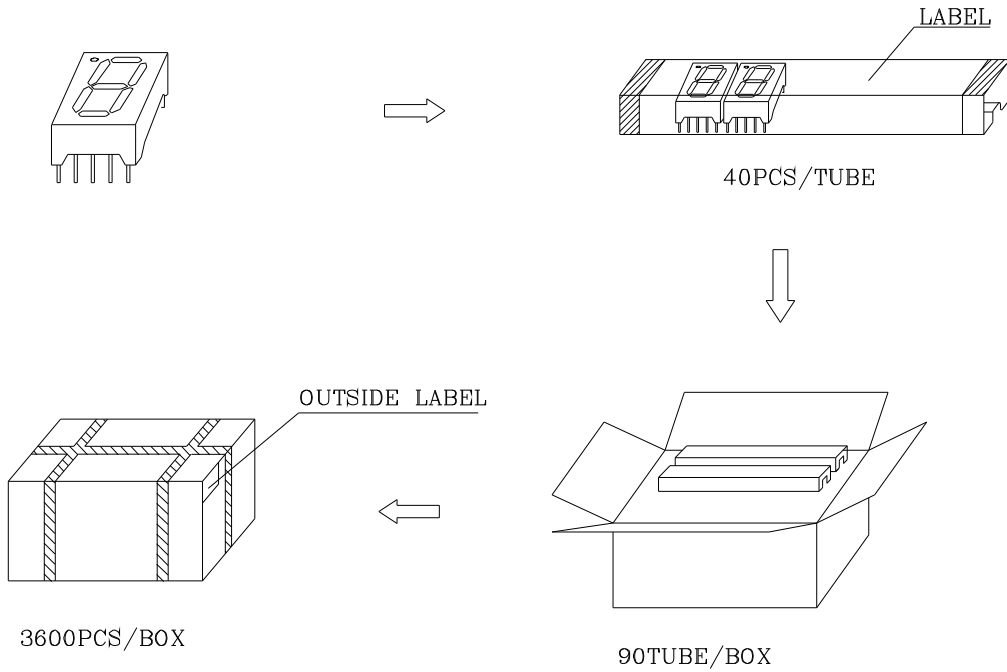
If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

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

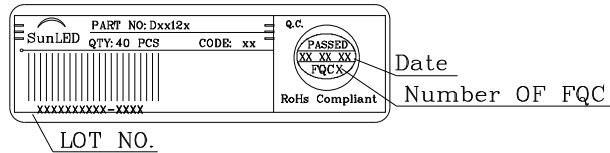
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

DUY12C



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

