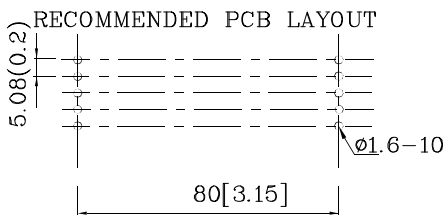
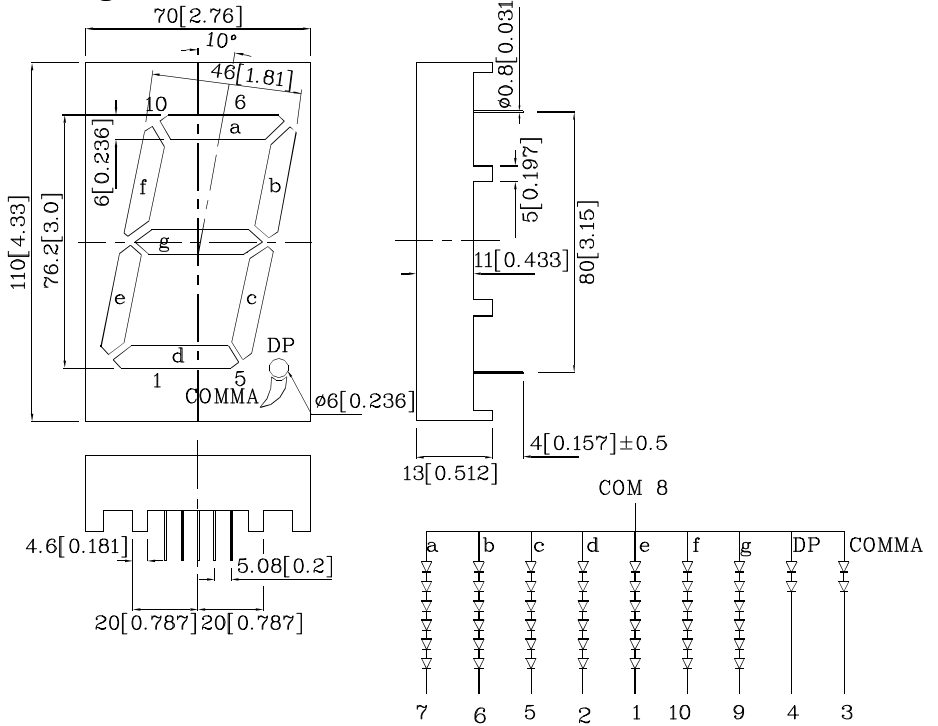


Features

- Low power consumption
- Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- RoHS Compliant



Package Schematics



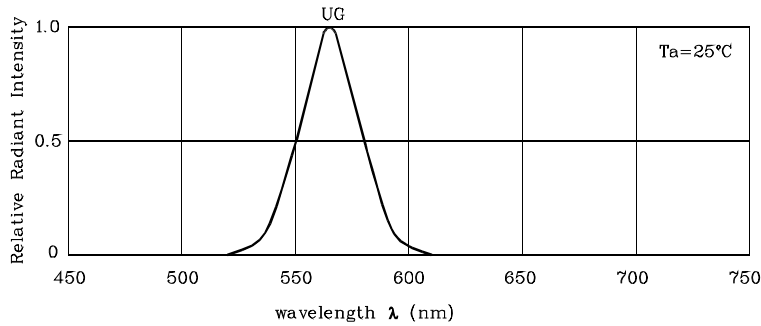
Notes:

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

| Absolute Maximum Ratings ($T_A=25^\circ\text{C}$) | | UG (GaP) | Unit |
|---|-----------------------|--------------|------|
| Reverse Voltage Per Segment or (Dp and Comma) | V_R | 5 (5) | V |
| Forward Current Per Segment or (Dp and Comma) | I_F | 25 (25) | mA |
| Forward Current (Peak) Per Segment or (Dp and Comma) 1/10 Duty Cycle 0.1ms Pulse Width | i_{FS} | 140 (140) | mA |
| Power Dissipation Per Segment or (Dp and Comma) | P_D | 375 (125) | 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 | | |

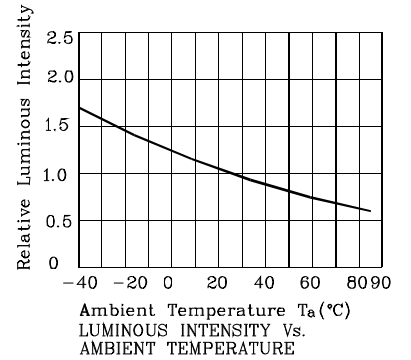
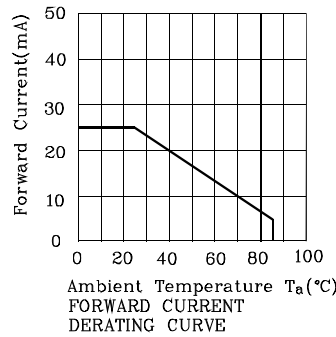
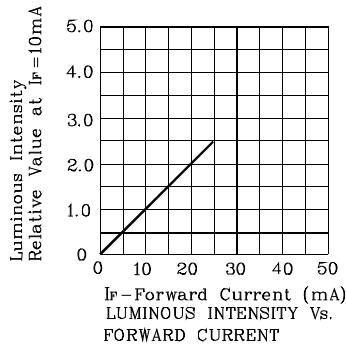
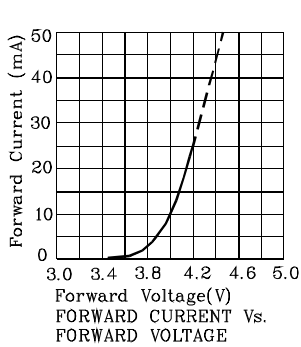
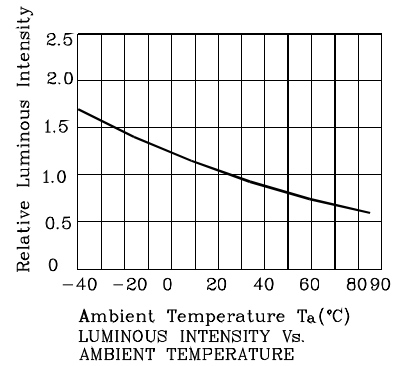
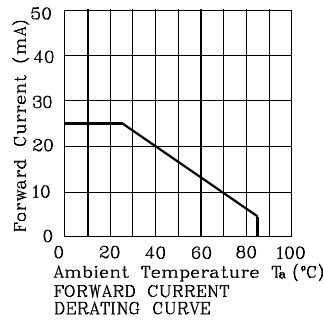
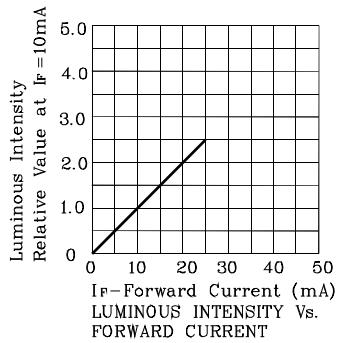
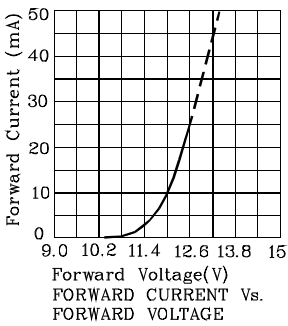
| Operating Characteristics ($T_A=25^\circ\text{C}$) | | UG (GaP) | Unit |
|--|-----------------|-------------|---------------|
| Forward Voltage (Typ.) Per Segment or (Dp and Comma) ($I_F=10\text{mA}$) | V_F | 12 (4.0) | V |
| Forward Voltage (Max.) Per Segment or (Dp and Comma) ($I_F=10\text{mA}$) | V_F | 15 (5.0) | V |
| Reverse Current (Max.) Per Segment or (Dp and Comma) ($V_R=5\text{V}$) | I_R | 10 (10) | μA |
| Wavelength of Peak Emission (Typ.) ($I_F=10\text{mA}$) | λ_P | 565 | nm |
| Wavelength of Dominant Emission (Typ.) ($I_F=10\text{mA}$) | λ_D | 568 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$) | $\Delta\lambda$ | 30 | nm |
| Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$) | C | 15 | pF |

| Part Number | Emitting Color | Emitting Material | Luminous Intensity ($I_F=10\text{mA}$) ucd | | Wavelength nm λ_P | Description |
|-------------|----------------|-------------------|--|-------|---------------------------------|------------------------------------|
| | | | min. | typ. | | |
| XDUG76A | Green | GaP | 21000 | 51990 | 565 | Common Anode , Rt.Hand Decimal. |

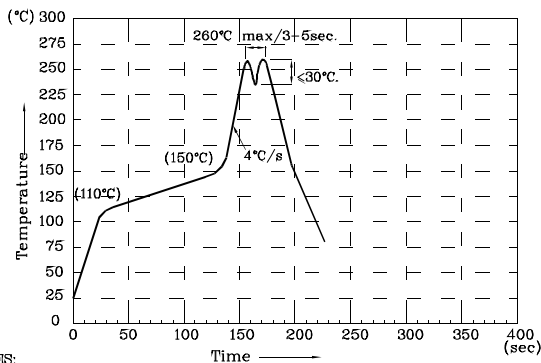


RELATIVE INTENSITY Vs. WAVELENGTH

❖ UG



Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 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°C.
 3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
 4. During wave soldering, the PCB top-surface temperature should be kept below 105°C.
 5. No more than once.

Remarks:

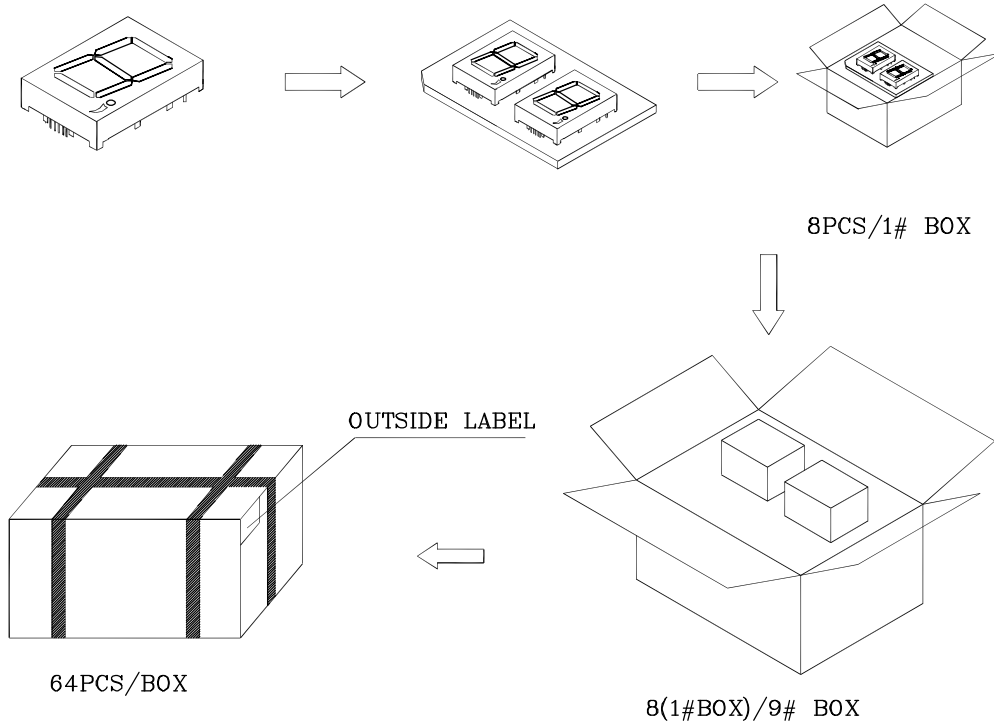
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

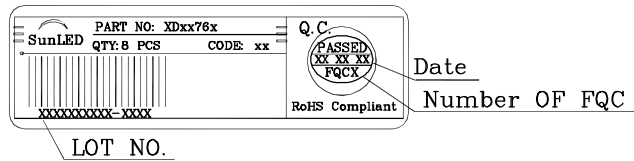
Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS



Inside Label On 1#BOX



Outside Label On Box

