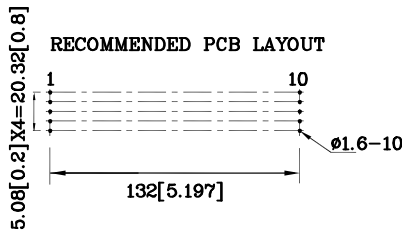
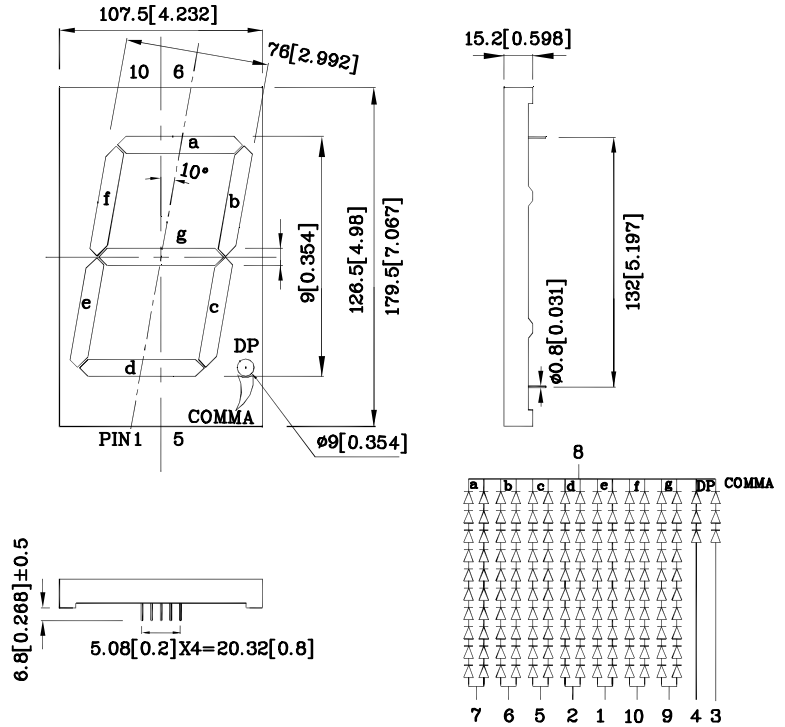


Features

- 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.

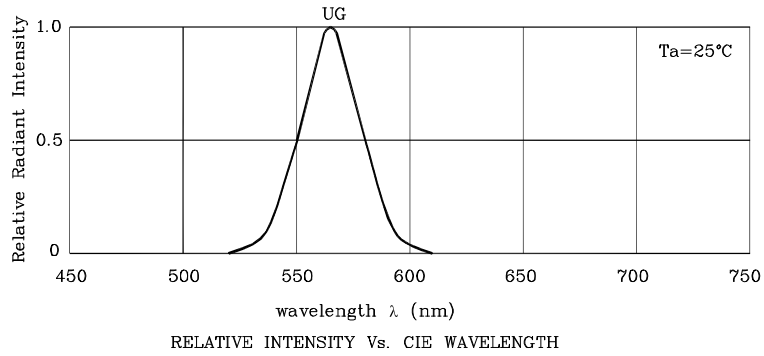
| Absolute Maximum Ratings ($T_A=25^\circ\text{C}$) | | UG (GaP) | Unit |
|---|-----------------------|-----------------|------|
| Reverse Voltage Per Segment Or (Dp And Comma) | V_R | 5 (5) | V |
| DC Forward Current Per Segment Or (Dp And Comma) | I_F | 50 (25) | mA |
| Forward Current (Peak) Per Segment Or (Dp And Comma) 1/10 Duty Cycle 0.1ms Pulse Width | i_{FS} | 280 (140) | mA |
| Power Dissipation Per Segment Or (Dp And Comma) | P_D | 1250 (187.5) | 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.) ($I_F=10\text{mA}$) Per Segment Or (Dp And Comma) | V_F | 20 (6) | V |
| Forward Voltage (Max.) ($I_F=10\text{mA}$) Per Segment Or (Dp And Comma) | V_F | 25 (7.5) | V |
| Reverse Current ($V_R=5\text{V}$) (Max.) Per Segment Or (Dp And Comma) | I_R | 20 (10) | μA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=10\text{mA}$) | λ_P | 565* | nm |
| Wavelength of Dominant Emission CIE127-2007* (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 |

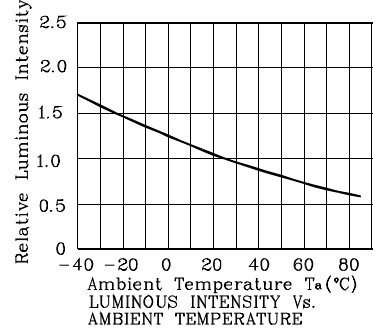
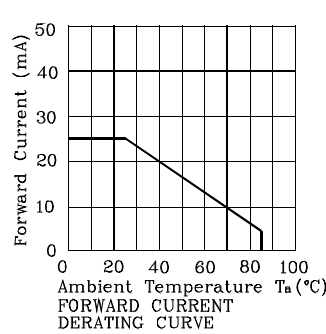
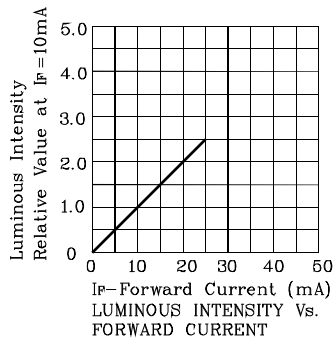
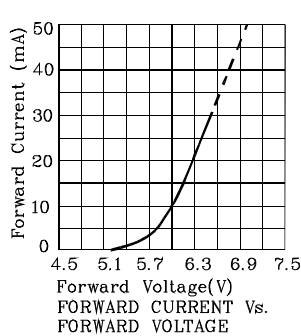
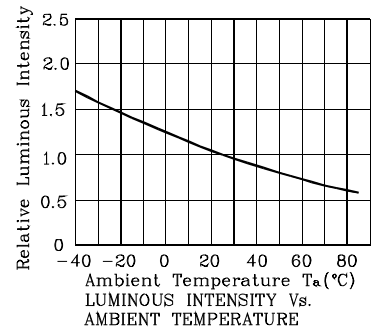
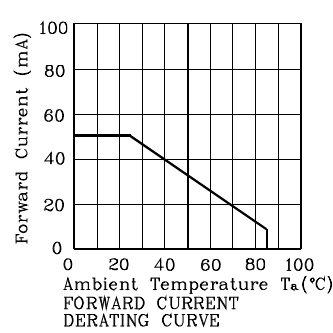
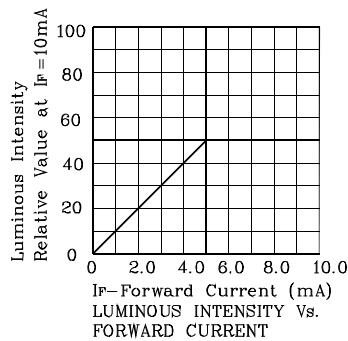
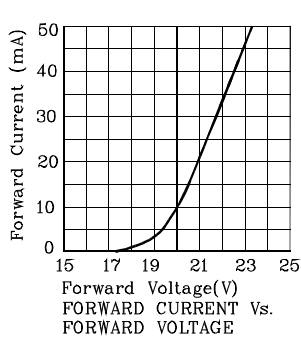
| Part Number | Emitting Color | Emitting Material | Luminous Intensity CIE127-2007* ($I_F=10\text{mA}$) ucd | Wavelength CIE127-2007* nm λ_P | Description |
|-------------|----------------|-------------------|--|---|-------------|
|-------------|----------------|-------------------|--|---|-------------|

| | | | | | |
|------------|-------|-----|-----------------|-----------------|--|
| | | | min. | typ. | |
| XDUG127C-B | Green | GaP | 31000 14000* | 69990 23000* | 565* Common Cathode, Rt. Hand Decimal. |

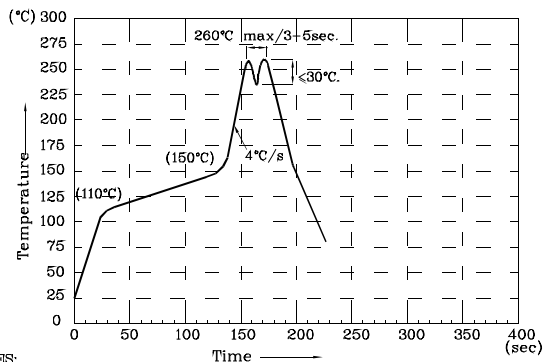
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.
Jul 07,2012



❖ 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.

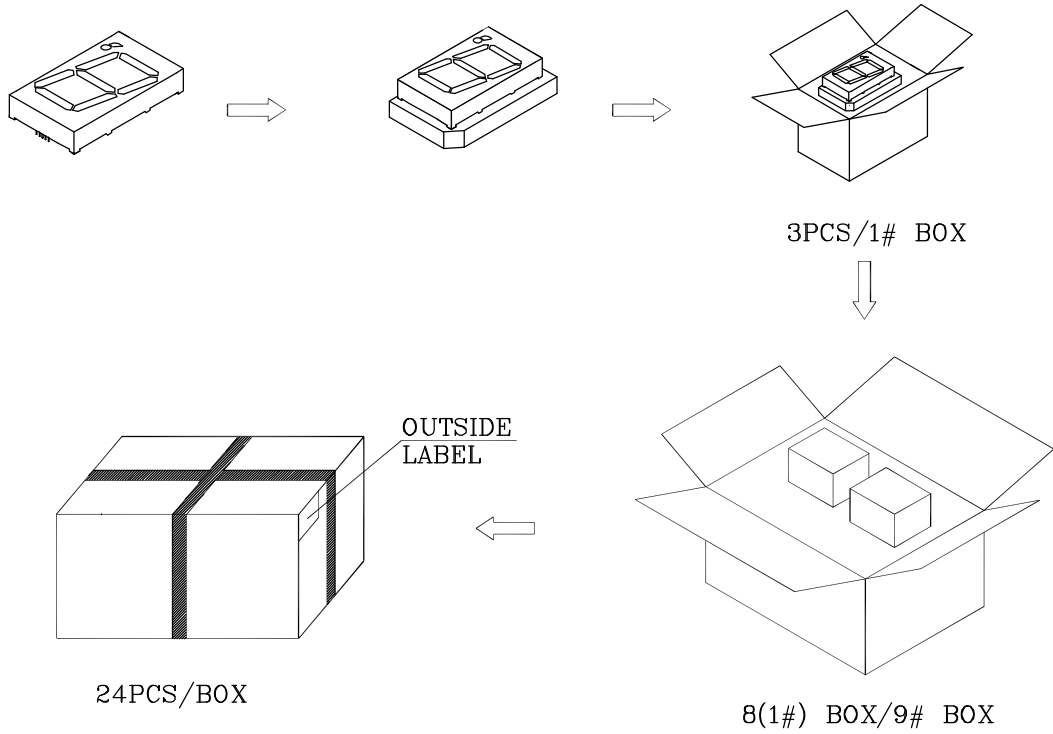
Remarks:

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:

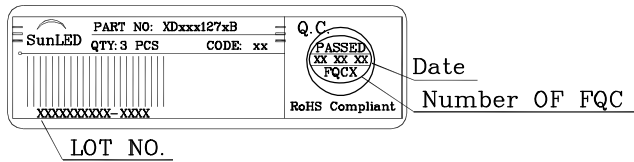
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



Inside Label On 1#BOX



Outside Label On Box

