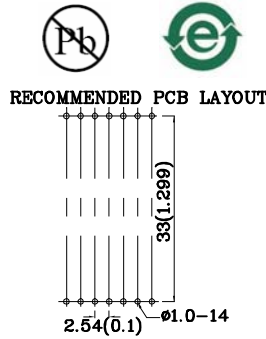
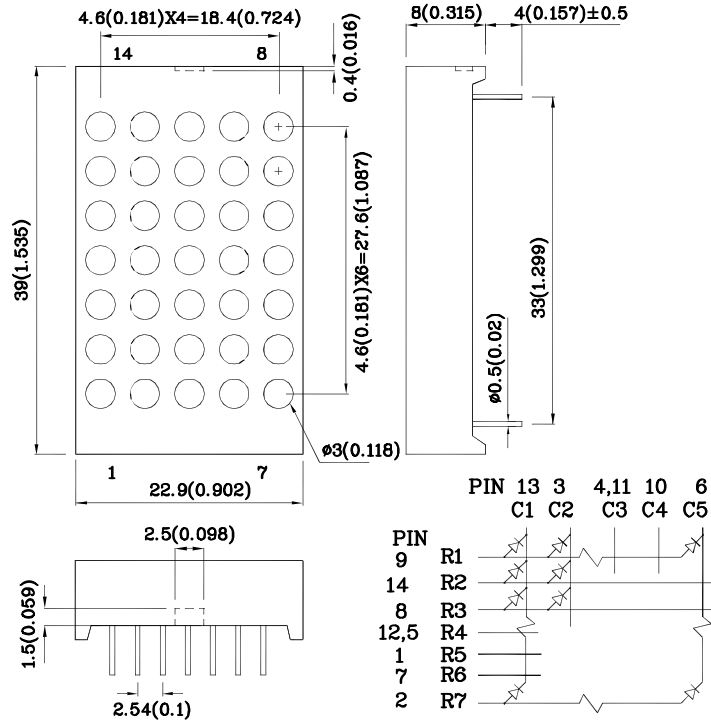


**Features**

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



**Package Schematics**



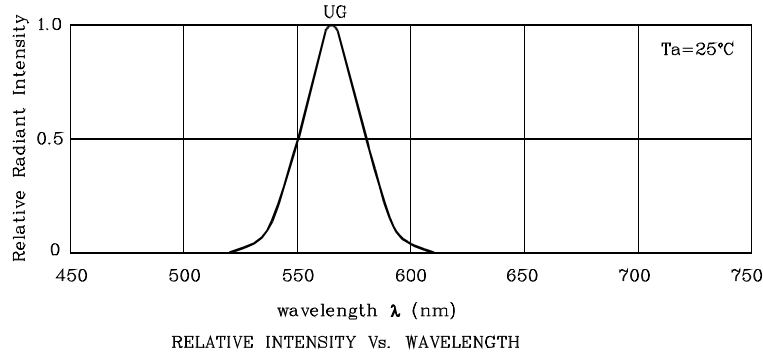
**Notes:**

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

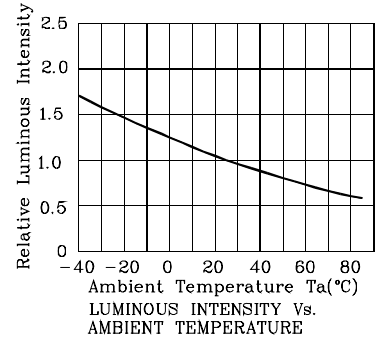
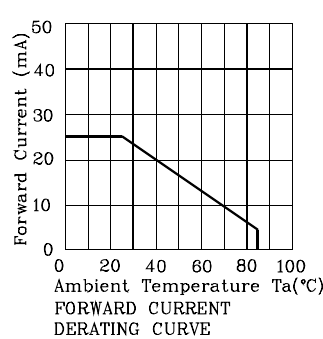
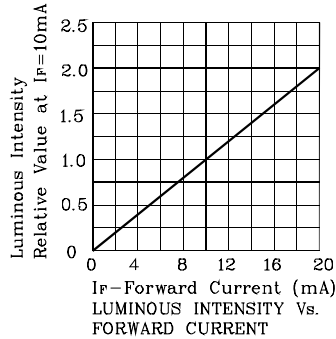
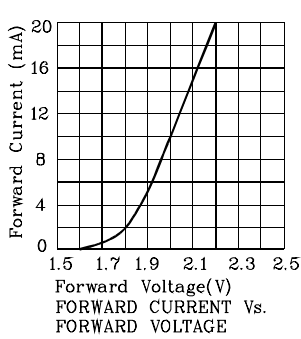
| Absolute Maximum Ratings (T <sub>A</sub> =25°C)                |                       | UG (GaP)  | Unit |
|--|-----------------------|-----------|------|
| Reverse Voltage  | V <sub>R</sub>        | 5         | V    |
| Forward Current  | I <sub>F</sub>        | 25        | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | i <sub>FS</sub>       | 140       | mA   |
| Power Dissipation  | P <sub>D</sub>        | 62.5      | mW   |
| Operating Temperature  | T <sub>A</sub>        | -40 ~ +85 | °C   |
| Storage Temperature  | T <sub>stg</sub>      | -40 ~ +85 |      |
| Lead Solder Temperature<br>[2mm Below Package Base]            | 260°C For 3-5 Seconds |           |      |

| Operating Characteristics (T <sub>A</sub> =25°C)                          |                | UG (GaP) | Unit |
|---|----------------|----------|------|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =10mA)                          | V <sub>F</sub> | 2        | 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 Emission (Typ.)<br>(I <sub>F</sub> =10mA)              | λ <sub>P</sub> | 565      | nm   |
| Wavelength of Dominant Emission (Typ.)<br>(I <sub>F</sub> =10mA)          | λ <sub>D</sub> | 568      | nm   |
| Spectral Line Full Width At Half-Maximum (Typ.)<br>(I <sub>F</sub> =10mA) | Δλ             | 30       | nm   |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                        | C              | 15       | pF   |

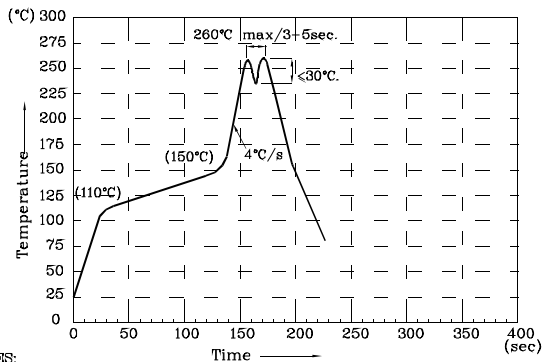
| Part Number | Emitting Color | Emitting Material | Luminous Intensity (I <sub>F</sub> =10mA) |       | Wavelength nm<br>λ <sub>P</sub> | Description    |
|-------------|----------------|-------------------|---|-------|---------------------------------|----------------|
|             |                |                   | min.                                      | typ.  |                                 |                |
| XMUG30C     | Green          | GaP               | 9000                                      | 15990 | 565                             | Column Cathode |



❖ 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.

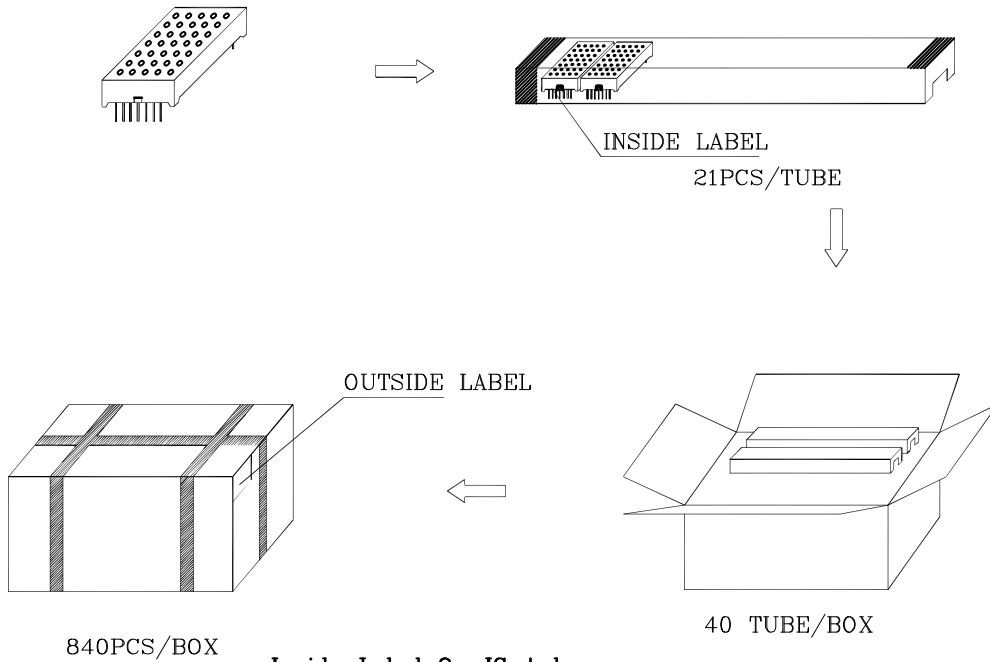
Remarks:

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:

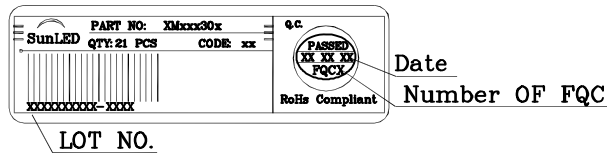
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



Inside Label On IC-tube



Outside Label On Box

