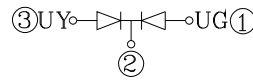
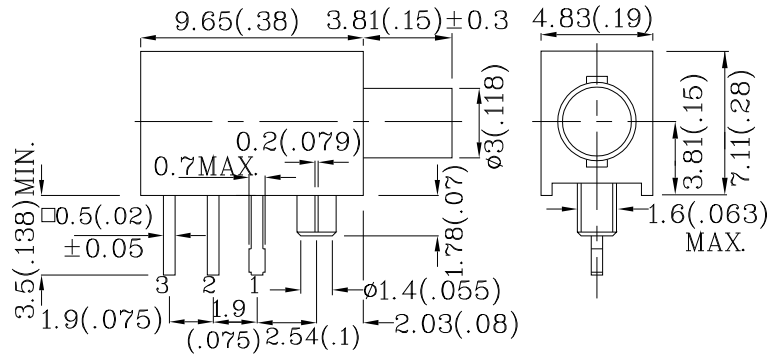


**Features**

- PRE-TRIMMED LEADS FOR PC MOUNTING.
- I.C.COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- WIDE VIEWING ANGLE.
- HIGH RELIABILITY-LIFE MEASURED IN YEARS.
- UL RATING:94V-0.
- HOUSING MATERIAL:TYPE 66 NYLON.
- RoHS COMPLIANT.



- 1 ANODE GREEN
- 2 COMMON CATHODE
- 3 ANODE **YELLOW**

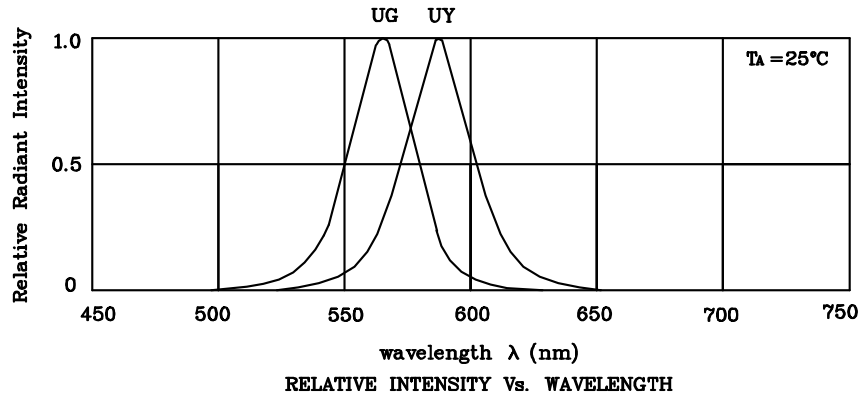
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.

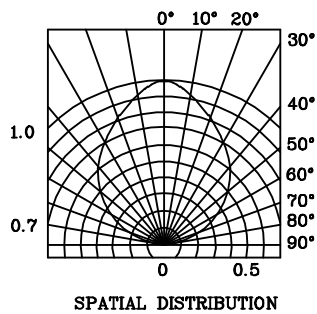
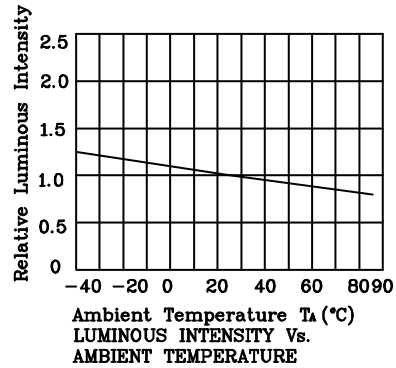
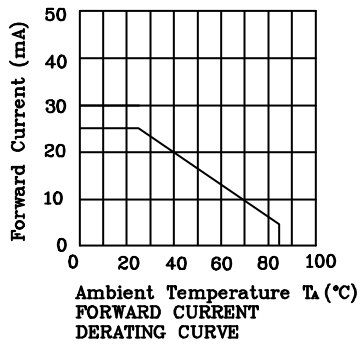
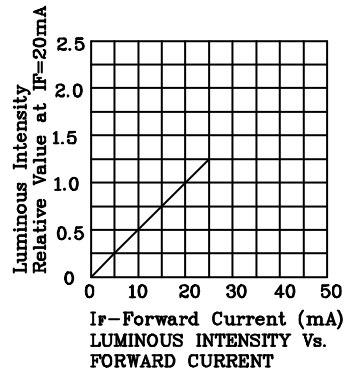
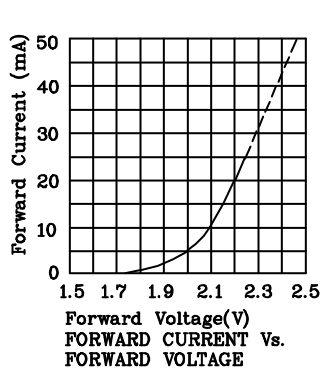
| Absolute Maximum Ratings<br>(TA=25°C)                          |                     | UG<br>(GaP) | UY<br>(GaAsP/<br>GaP) | Unit |
|--|---------------------|-------------|-----------------------|------|
| Reverse Voltage  | VR                  | 5           | 5                     | V    |
| Forward Current  | IF                  | 25          | 30                    | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS                 | 140         | 140                   | mA   |
| Power Dissipation  | PT                  | 105         | 105                   | mW   |
| Operating Temperature  | TA                  | -40 ~ +85   |                       | °C   |
| Storage Temperature  | Tstg                | -40 ~ +85   |                       |      |
| Lead Solder Temperature<br>[2mm Below Package Base]            | 260°C For 3 Seconds |             |                       |      |
| Lead Solder Temperature<br>[5mm Below Package Base]            | 260°C For 5 Seconds |             |                       |      |

| Operating Characteristics<br>(TA=25°C)                   |     | UG<br>(GaP) | UY<br>(GaAsP/<br>GaP) | Unit |
|--|-----|-------------|-----------------------|------|
| Forward Voltage (Typ.)<br>(IF=20mA)                      | VF  | 2.2         | 2.1                   | V    |
| Forward Voltage (Max.)<br>(IF=20mA)                      | VF  | 2.5         | 2.5                   | V    |
| Reverse Current<br>(VR=5V)                               | IR  | 10          | 10                    | uA   |
| Wavelength of Peak<br>Emission (IF=20mA)                 | λ P | 565         | 590                   | nm   |
| Wavelength of Dominant<br>Emission (IF=20mA)             | λ D | 568         | 588                   | nm   |
| Spectral Line Full Width<br>At Half-Maximum<br>(IF=20mA) | Δλ  | 30          | 35                    | nm   |
| Capacitance<br>(VF=0V, f=1MHz)                           | C   | 15          | 20                    | pF   |

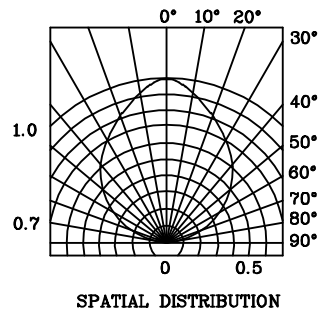
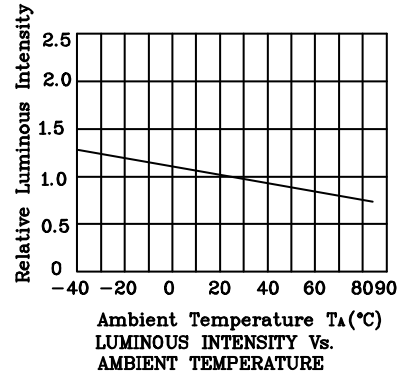
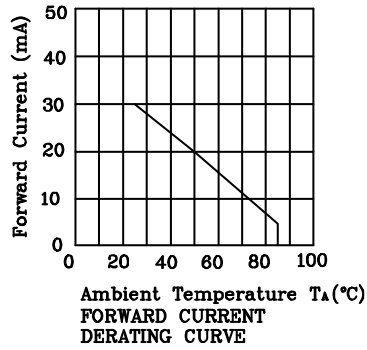
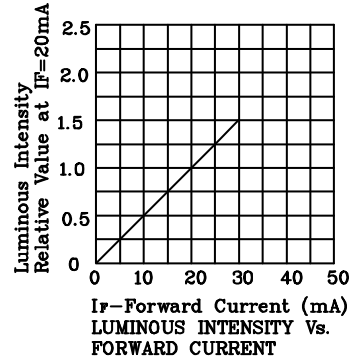
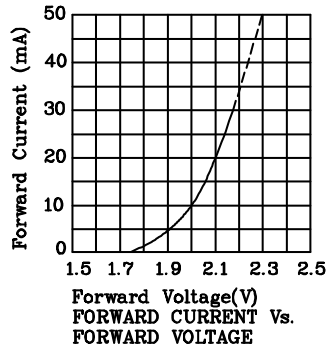
| Part Number | Emitting Color | Emitting Material | Lens-color     | Luminous Intensity<br>(IF=20mA)<br>mcd |      | Wavelength<br>nm<br>λ P | Viewing Angle<br>2 θ 1/2 |
|-------------|----------------|-------------------|----------------|--|------|-------------------------|--------------------------|
|             |                |                   |                | min.                                   | typ. |                         |                          |
| XWP1SUGY93M | Green          | GaP               | White Diffused | 4                                      | 12   | 565                     | 100°                     |
|             | Yellow         | GaAsP/GaP         |                | 2.6                                    | 5    | 590                     |                          |



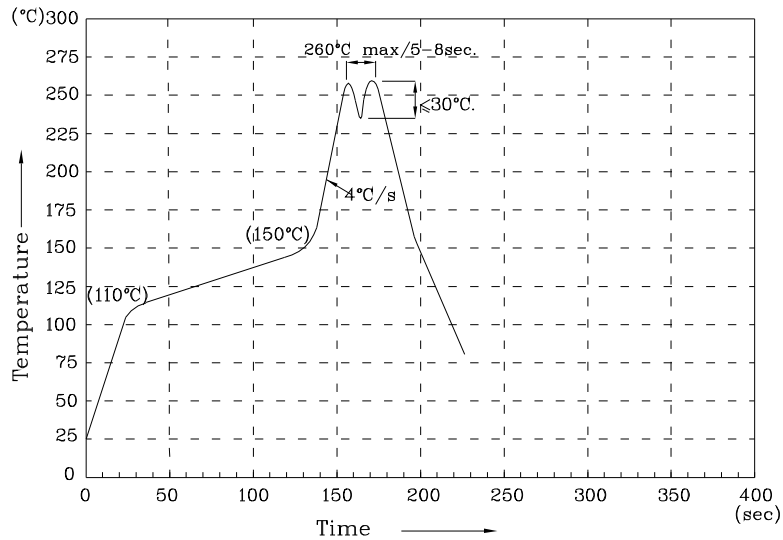
❖ UG



❖ 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: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.