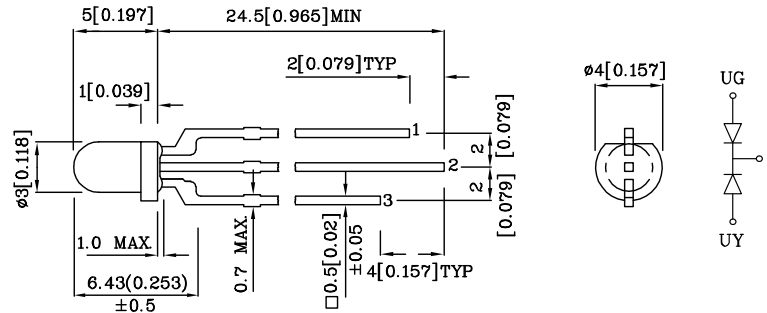


Features

- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- 3 LEADS WITH ONE COMMON LEAD.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.



- 1 ANODE GREEN
- 2 COMMON CATHDDE
- 3 ANODE YELLOW

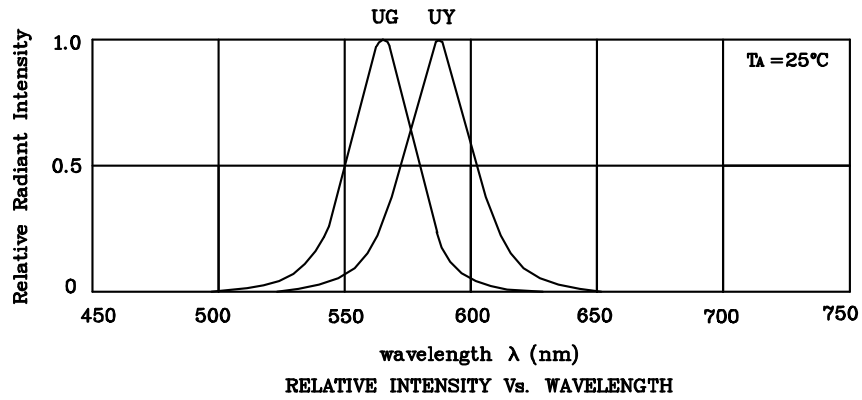
Notes:

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

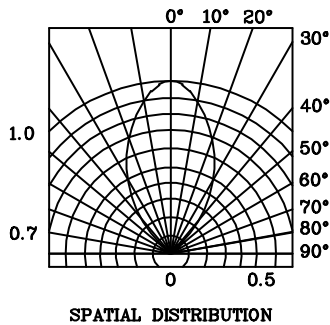
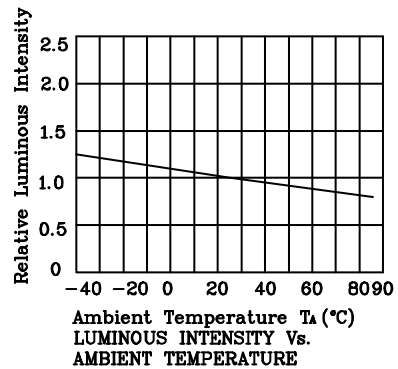
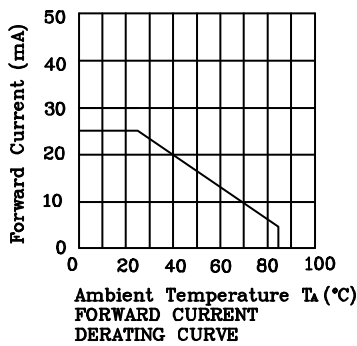
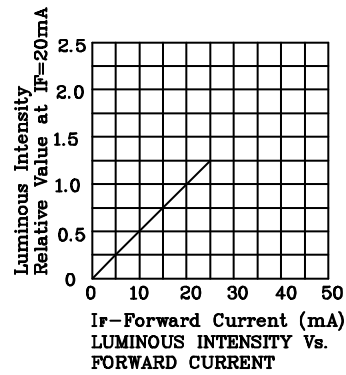
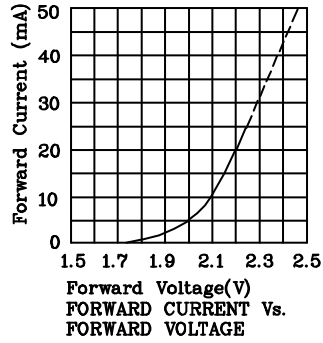
| Absolute Maximum Ratings (TA=25°C) | | UG (GaP) | UY (GaAsP/ GaP) | Unit |
|----------------------------------------------------------------|---------------------|-------------|-----------------------|------|
| Reverse Voltage | VR | 5 | 5 | V |
| Forward Current | IF | 25 | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 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 [2mm Below Package Base] | 260°C For 3 Seconds | | | |
| Lead Solder Temperature [5mm Below Package Base] | 260°C For 5 Seconds | | | |

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

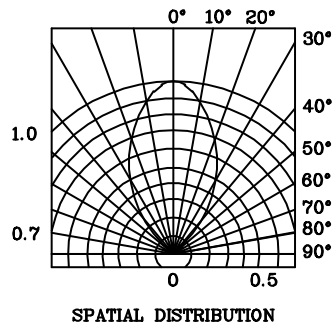
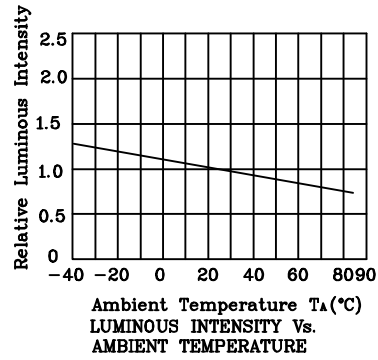
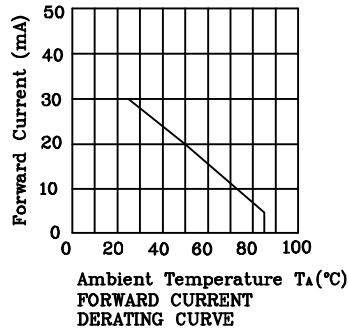
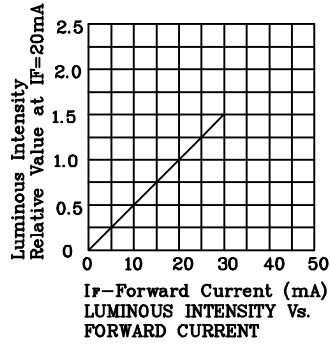
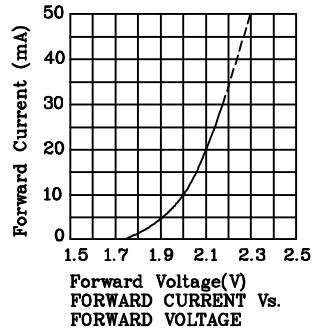
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=20mA) mcd | | Wavelength nm λ P | Viewing Angle 2 θ 1/2 |
|-------------|----------------|-------------------|----------------|----------------------------------------|------|-------------------------|--------------------------|
| | | | | min. | typ. | | |
| LUGY29M | Green | GaP | White Diffused | 10 | 34 | 565 | 60° |
| | Yellow | GaAsP/GaP | | 7 | 14 | 590 | |



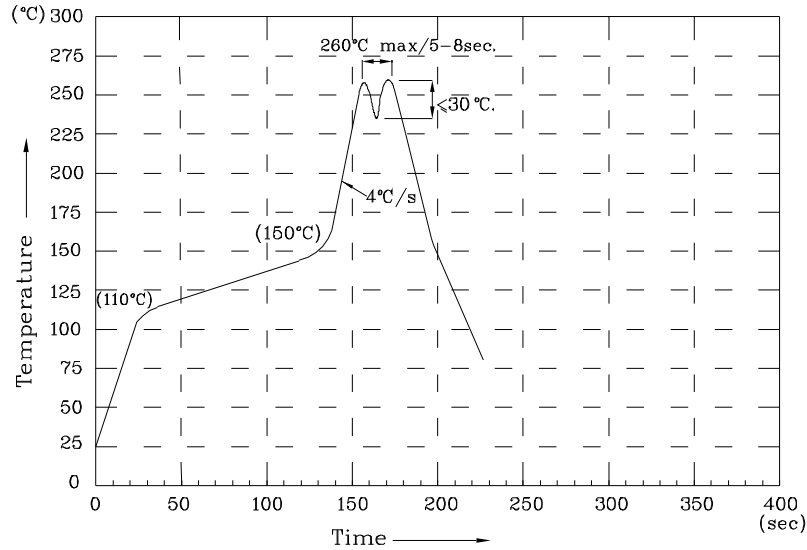
❖ UG



❖ 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/ 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.