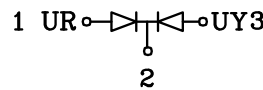
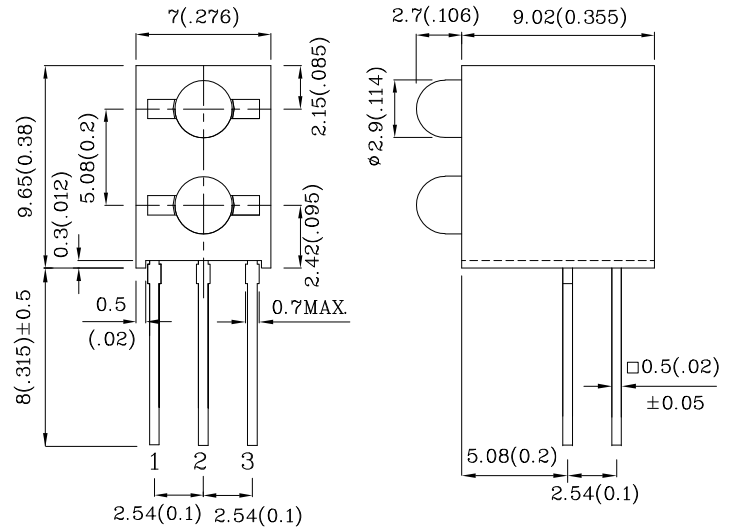


Features

- BI-LEVEL RIGHT ANGLE HOUSING LED.
- PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- I.C. COMPATIBLE.
- BLACK CASE ENHANCES CONTRAST RATIO.
- HIGH RELIABILITY.
- UL RATING: 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.



- 1 ANODE RED
- 2 COMMON CATHODE
- 3 ANODE YELLOW

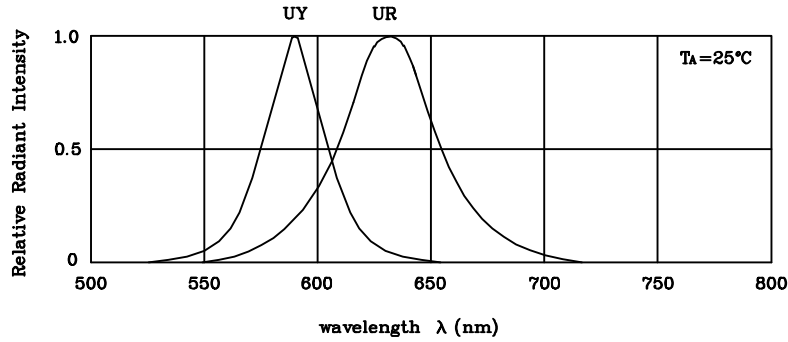
Notes:

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

| Absolute Maximum Ratings (TA=25°C) | | UR (GaAsP/ GaP) | UY (GaAsP/ GaP) | Unit |
|--|---------------------|-----------------------|-----------------------|------|
| Reverse Voltage | VR | 5 | 5 | V |
| Forward Current | IF | 30 | 30 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | IFS | 160 | 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 | | | |

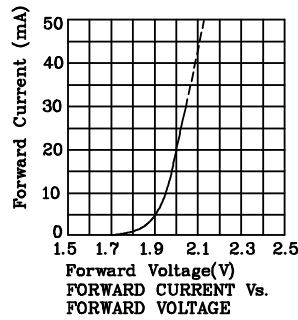
| Operating Characteristics (TA=25°C) | | UR (GaAsP/ GaP) | UY (GaAsP/ GaP) | Unit |
|--|-----------------|-----------------------|-----------------------|------|
| Forward Voltage (Typ.) (IF=20mA) | VF | 2.0 | 2.1 | V |
| Forward Voltage (Max.) (IF=20mA) | VF | 2.5 | 2.5 | V |
| Reverse Current (VR=5V) | IR | 10 | 10 | uA |
| Wavelength of Peak Emission (IF=20mA) | λP | 627 | 590 | nm |
| Wavelength of Dominant Emission (IF=20mA) | λD | 625 | 588 | nm |
| Spectral Line Full Width At Half-Maximum (IF=20mA) | $\Delta\lambda$ | 45 | 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 λP | Viewing Angle 2 θ 1/2 |
|--------------|----------------|-------------------|----------------|--|------|---------------------------------|---------------------------------|
| | | | | min. | typ. | | |
| XVO2LUYR86M8 | Red | GaAsP/GaP | White Diffused | 7 | 29 | 627 | 60° |
| | Yellow | GaAsP/GaP | | 7 | 19 | 590 | |

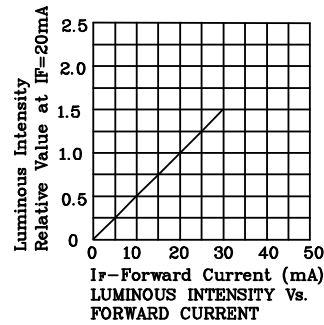


RELATIVE INTENSITY Vs. WAVELENGTH

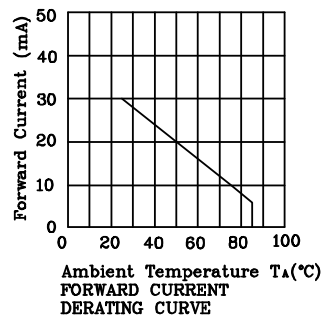
❖ UR



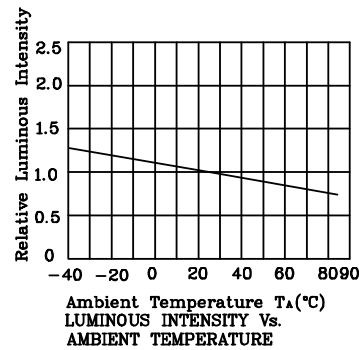
FORWARD CURRENT Vs. FORWARD VOLTAGE



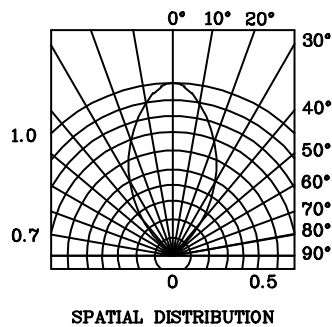
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE

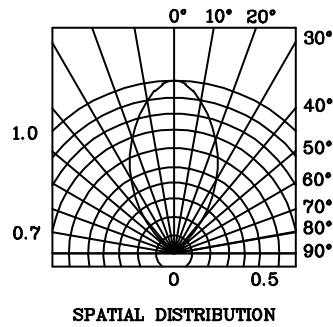
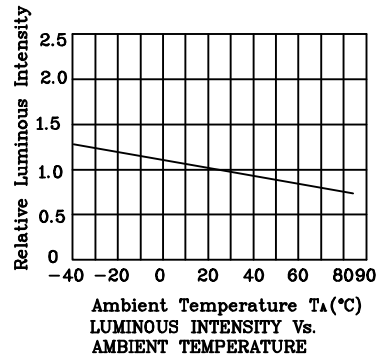
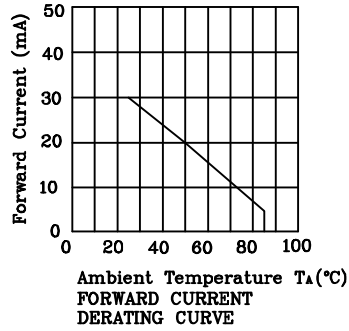
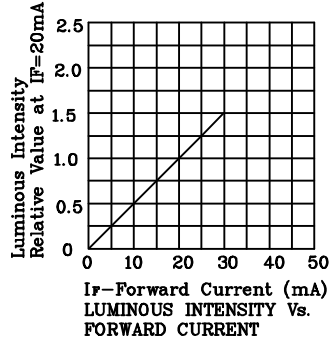
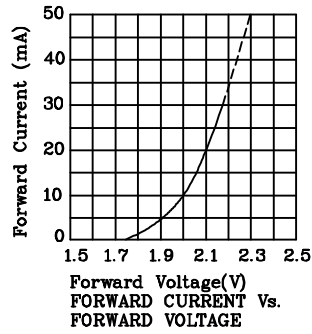


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

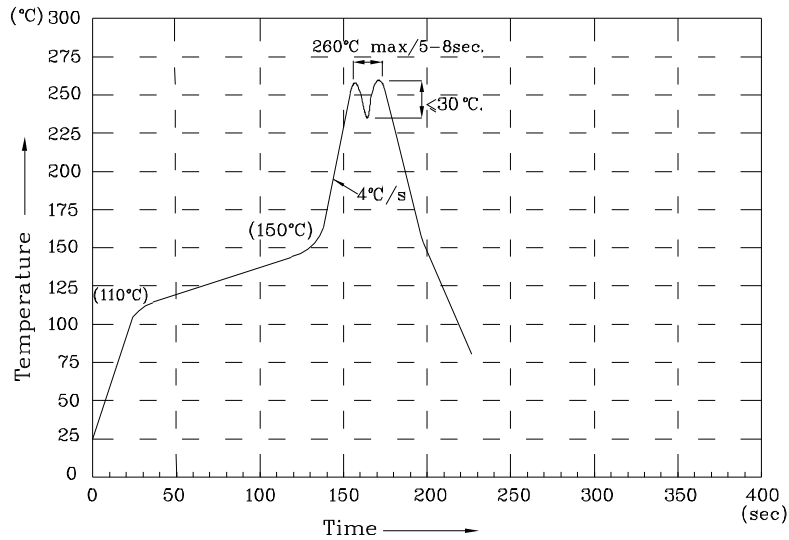


SPATIAL DISTRIBUTION

❖ 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.