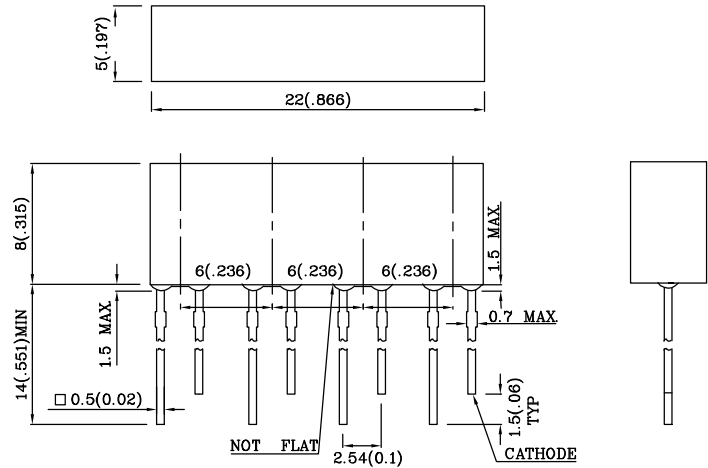


Features

- UNIFORM LIGHT EMITTING AREA.
- EASILY MOUNTED ON P.C. BOARDS OR INDUSTRY STANDARD SOCKETS.
- FLUSH MOUNTABLE.
- EXCELLENT ON/OFF CONTRAST.
- CAN BE USED WITH PANELS AND LEGEND MOUNTS.
- MECHANICALLY RUGGED.
- I.C. COMPATIBLE.
- BOTTOM SURFACE OF EPOXY IS NOT FLAT.
- RoHS COMPLIANT.



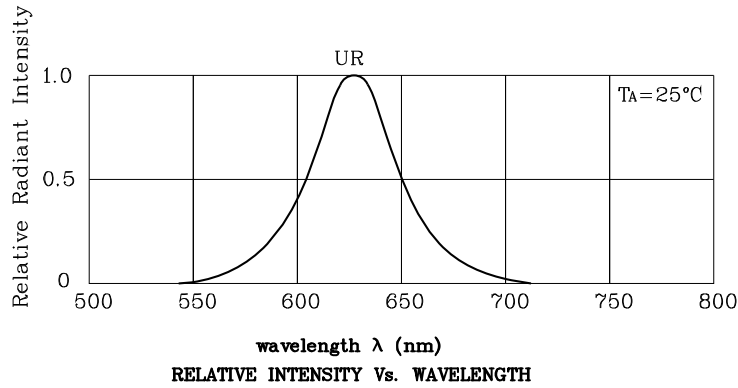
Notes:

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

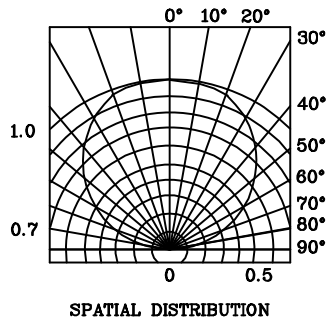
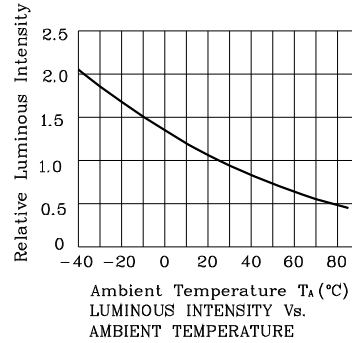
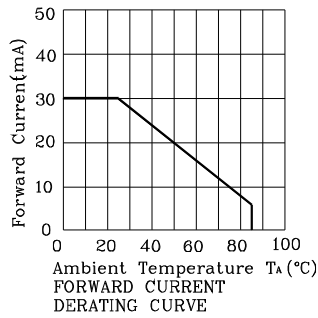
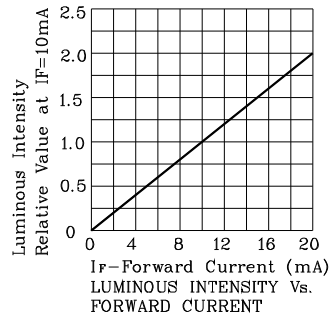
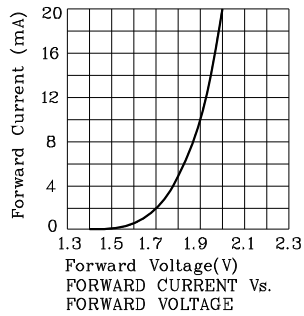
| Absolute Maximum Ratings (TA=25°C) | | UR (GaAsP/GaP) | Unit |
|--|---------------------|-------------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 30 | mA |
| Forward Current (peak) 1/10 Duty Cycle 0.1ms Pulse Width | i _{FS} | 160 | mA |
| Power Dissipation | P _T | 75 | 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 Seconds | | |
| Lead Solder Temperature [5mm below package base] | 260°C For 5 Seconds | | |

| Operating Characteristics (TA=25°C) | | UR (GaAsP/GaP) | Unit |
|--|----------------|-------------------|------|
| Forward Voltage (Typ.) (I _F =10mA) | V _F | 1.9 | V |
| Forward Voltage (Max.) (I _F =10mA) | V _F | 2.5 | V |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength Of Peak Emission (Typ.) (I _F =10mA) | λ P | 627 | nm |
| Wavelength Of Dominant Emission (Typ.) (I _F =10mA) | λ D | 625 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA) | Δλ | 45 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | C | 15 | pF |

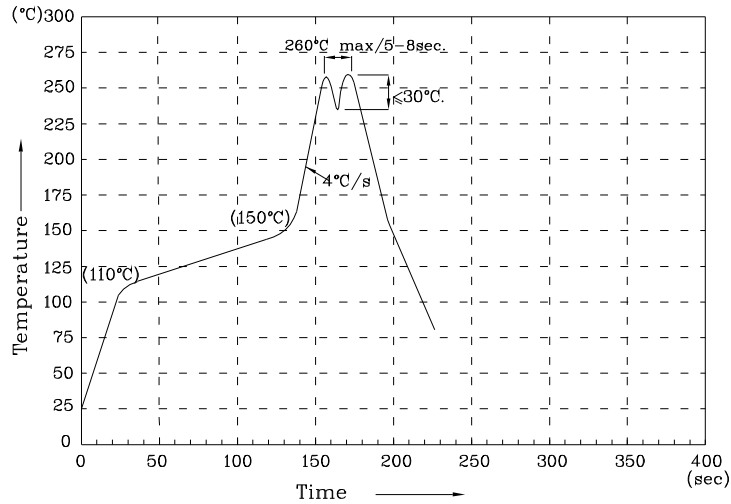
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (I _F =10mA) mcd | | Wavelength nm λ P | Viewing Angle 2 θ 1/2 |
|-------------|----------------|-------------------|--------------|---|------|-------------------------|--------------------------|
| | | | | min. | typ. | | |
| EUR31D | Red | GaAsP/GaP | Red Diffused | 5 | 9 | 627 | 120° |



❖ **UR**



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:

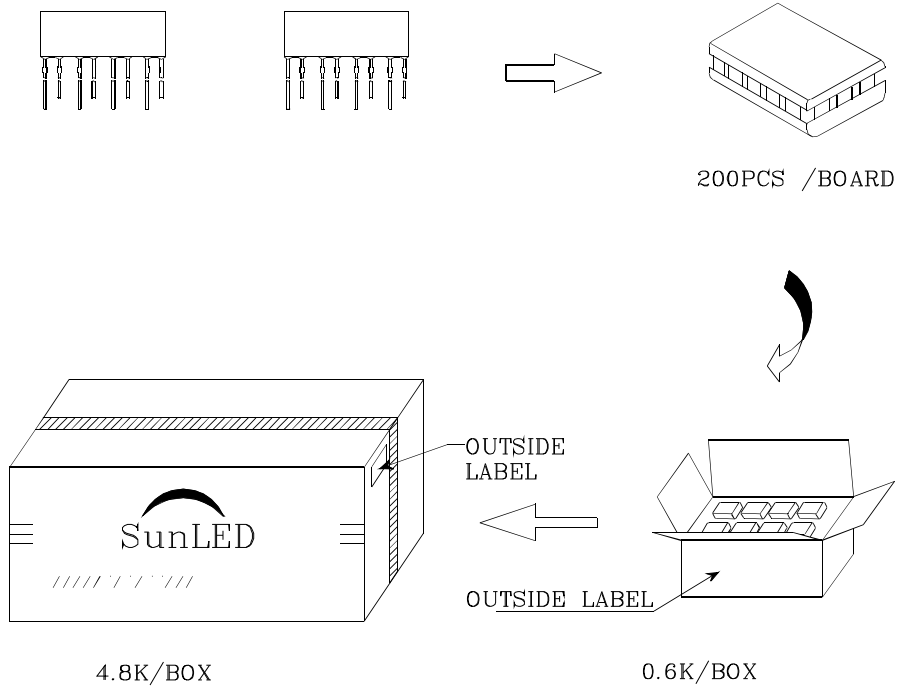

If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

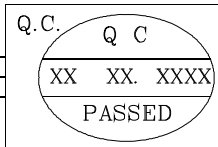
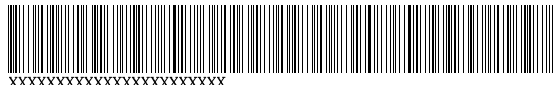
1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

EUR31D

| | |
|--|-----------|
|  | |
| P/NO : Exx31x | |
| QTY : 200 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  XXXXXXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |