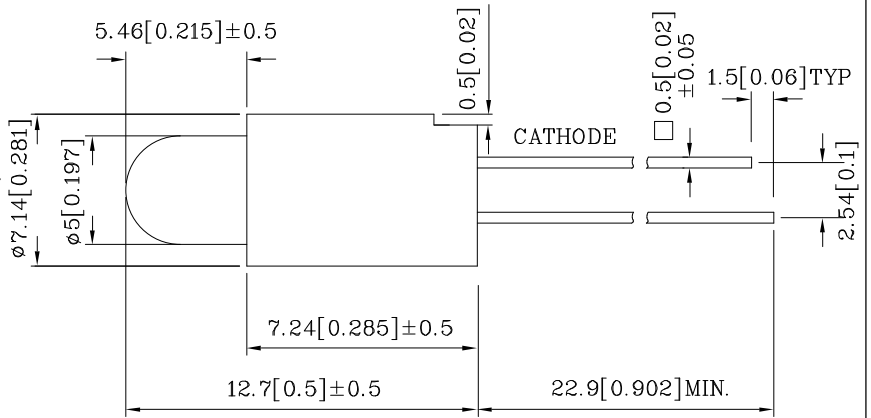


Features

- LED FIRMLY HELD BY SPACER.
- SUITABLE FOR BACK PANEL ILLUMINATION, CIRCUIT BOARD INDICATOR, LED INDICATOR.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- RoHS COMPLIANT.



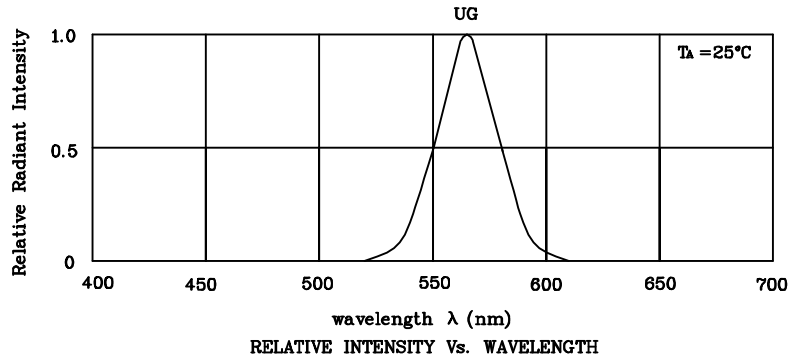
Notes:

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

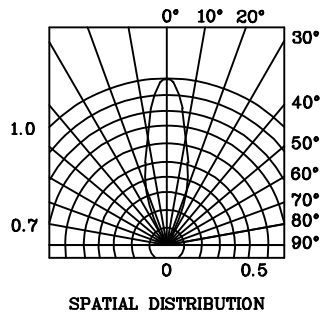
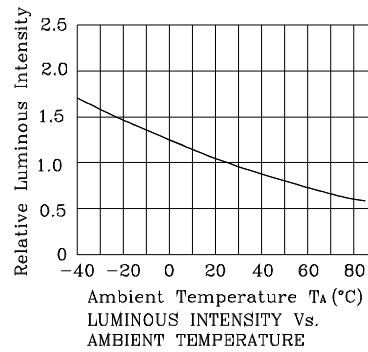
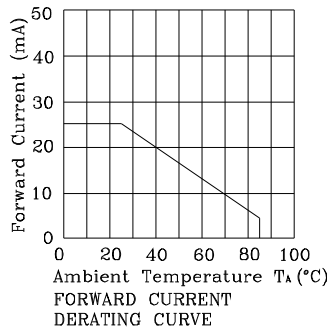
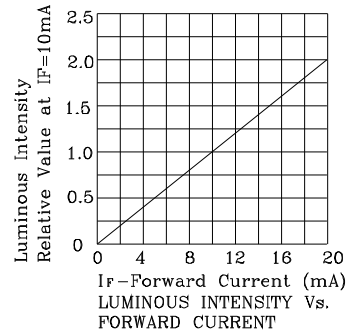
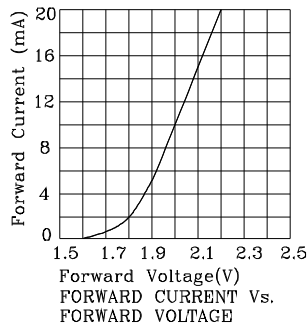
| Absolute Maximum Ratings (TA=25°C) | | UG (GaP) | Unit |
|--|---------------------|-------------|------|
| Reverse Voltage | VR | 5 | V |
| Forward Current | IF | 25 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | iFS | 140 | mA |
| Power Dissipation | PT | 62.5 | mW |
| Operating 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) | Unit |
|---|-----|-------------|------|
| Forward Voltage (Typ.) (IF=10mA) | VF | 2.0 | V |
| Forward Voltage (Max.) (IF=10mA) | VF | 2.5 | V |
| Reverse Current (Max.) (VR=5V) | IR | 10 | uA |
| Wavelength of Peak Emission (Typ.) (IF=10mA) | λ P | 565 | nm |
| Wavelength of Dominant Emission (Typ.) (IF=10mA) | λ D | 568 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA) | Δλ | 30 | nm |
| Capacitance (Typ.) (VF=0V, f=1MHz) | C | 15 | pF |

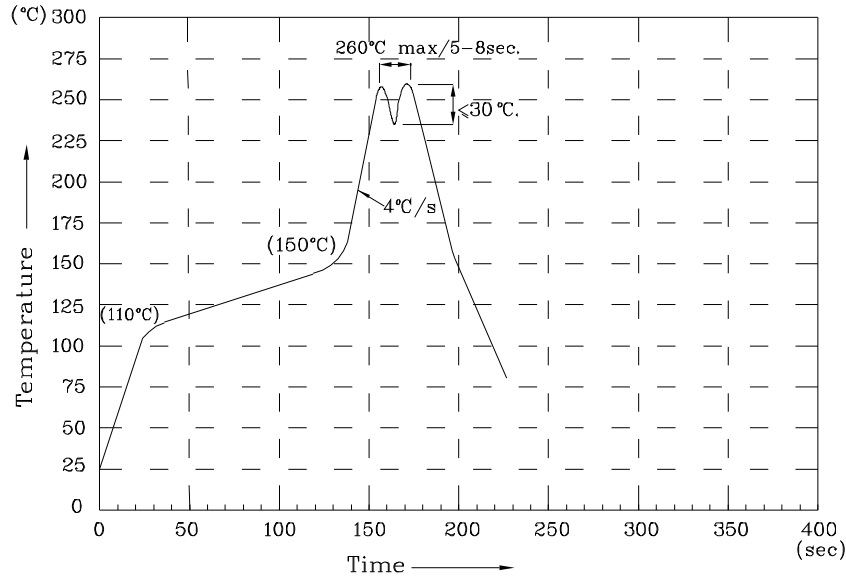
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=10mA) mcd | | Wavelength nm λ P | Viewing Angle 2 θ 1/2 |
|------------------------------|-------------------|-----------------------|----------------|---|-------------------|-------------------------|-----------------------------|
| | | | | min. | typ. | | |
| VN1LUG12D12.7 | Green | GaP | Green Diffused | 5 | 19 | 565 | 30° |
| Published Date : MAR 26,2008 | | Drawing No : SDSA4941 | | V3 | Checked : B.L.LIU | | P.1/4 |



❖ UG



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:

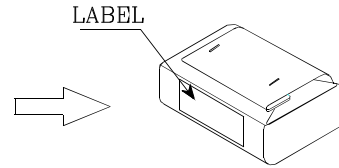
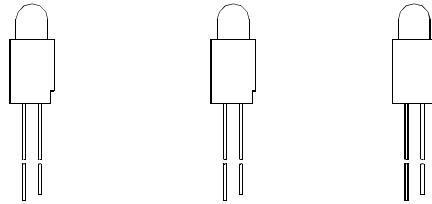
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

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

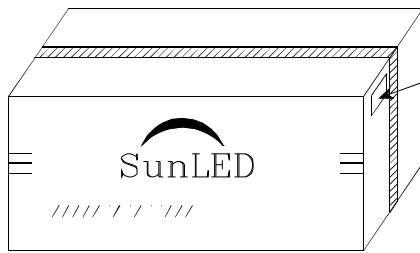
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

VN1LUG12D12.7



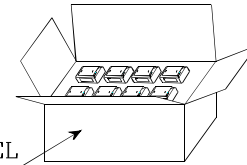
200 PCS/ Bag



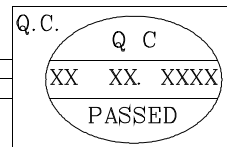
12.8K/ BOX

OUTSIDE LABEL

OUTSIDE LABEL



1.6K/ BOX



P/NO : VN1Lxx12x12.7

QTY : 200 pcs

CODE: XXX

S/N : XX

LOT NO:



XXXXXXXXXXXXXXXXXXXXXX

RoHS Compliant