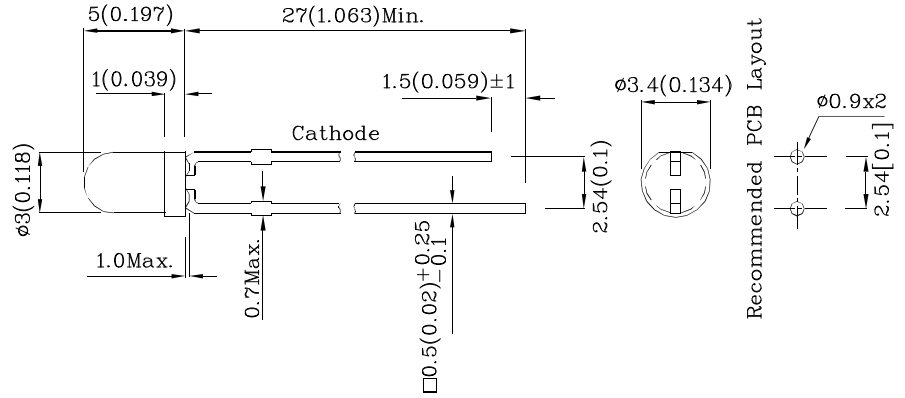


Features

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS Compliant



Package Schematics



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.

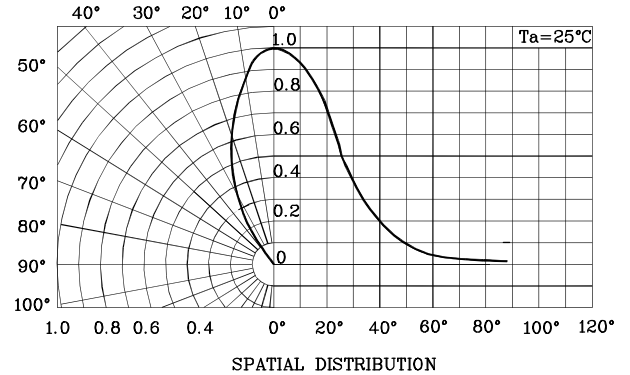
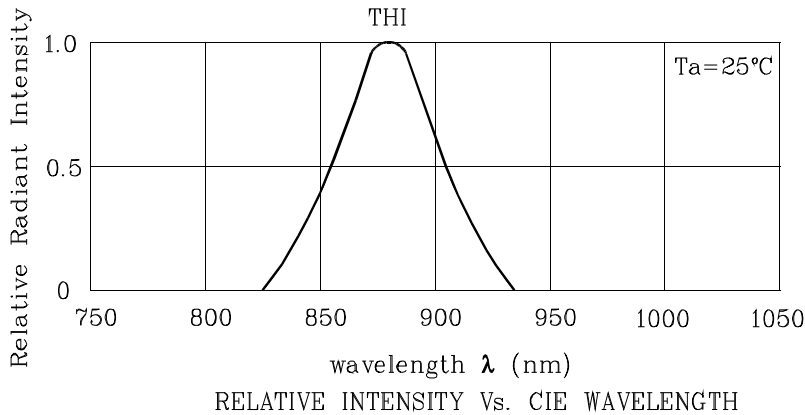
| Absolute Maximum Ratings (T _A =25°C) | | THI (GaAlAs) | Unit |
|--|---------------------|-----------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | I _F | 50 | mA |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | iFS | 1200 | mA |
| Power Dissipation | P _D | 80 | 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 | | |

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

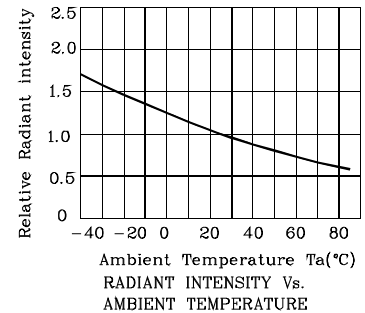
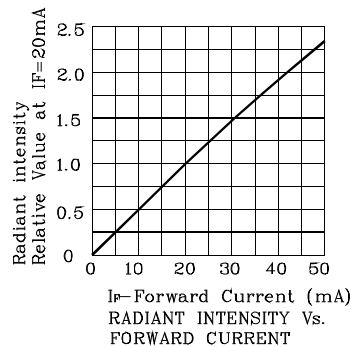
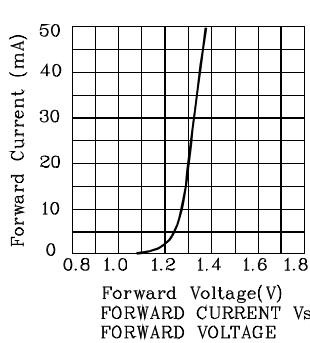
| Operating Characteristics (T _A =25°C) | | THI (GaAlAs) | Unit |
|--|----------------|-----------------|------|
| Forward Voltage (Typ.) (I _F =20mA) | V _F | 1.3 | V |
| Forward Voltage (Max.) (I _F =20mA) | V _F | 1.6 | V |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA) | λ _P | 880* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | Δλ | 50 | nm |
| Capacitance (Typ.) (V _R =0V, f=1MHz) | C | 90 | pF |

| Part Number | Emitting Material | Lens-color | Radiant Intensity CIE127-2007* (P _o =mW/sr) @20mA | | Radiant Intensity CIE127-2007* (P _o =mW/sr) @50mA | | Wavelength CIE127-2007* nm λ _P | Viewing Angle 2θ 1/2 |
|----------------|----------------------|-------------|---|------|---|------|--|----------------------------|
| | | | min. | typ. | min. | typ. | | |
| XTHI30W | GaAlAs | Water Clear | 3* | 15* | 5* | 19* | 880* | 50° |

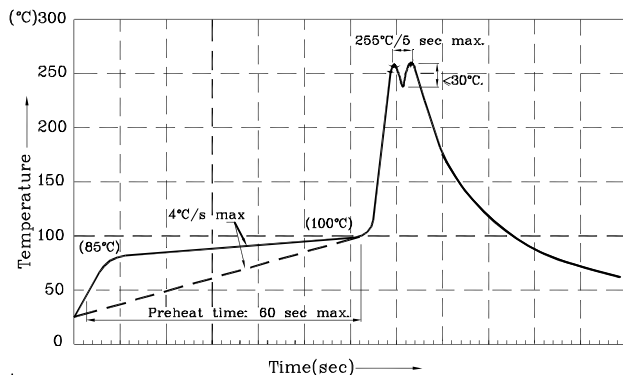
*Radiant intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ THI



Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



Notes:

1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec (5 sec max).
3. Do not apply stress to the epoxy resin while the temperature is above 85°C.
4. Fixtures should not incur stress on the component when mounting and during soldering process.
5. SAC 305 solder alloy is recommended.
6. No more than one wave soldering pass.

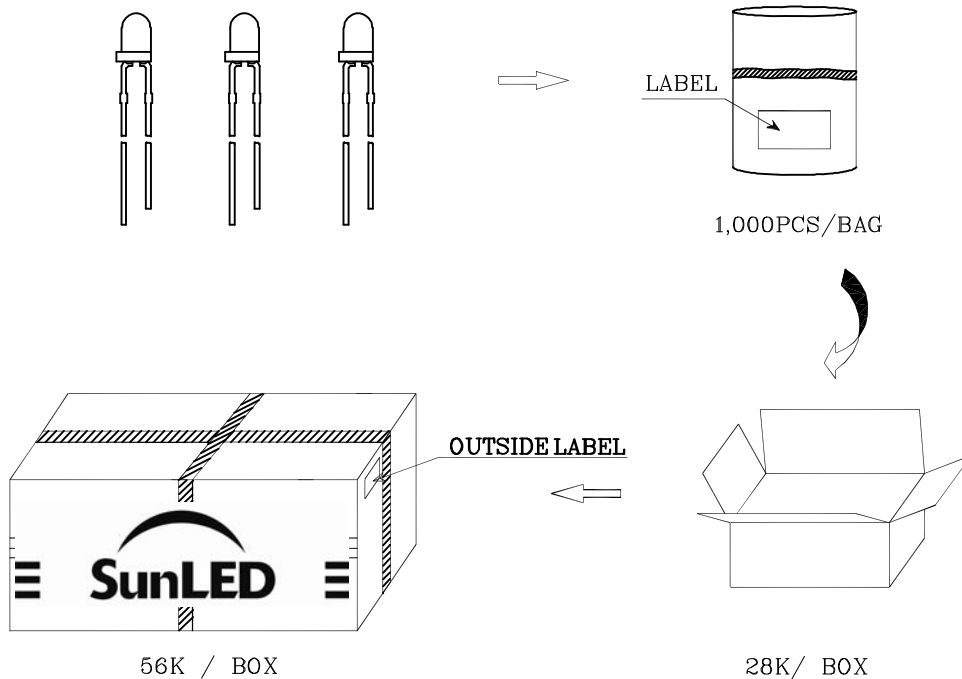
Remarks:



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

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

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



| | | |
|---|--|-------------------------------------|
|  | | Q.C. Q C XX XX XXXX PASSED |
| P/NO : Xxxx30x | | |
| QTY : 1,000 pcs | | CODE: XXX |
| S/N : XX | | |
| LOT NO:  XXXXXXXXXXXXXXXXXXXXXXXX | | |
| RoHS Compliant | | |

TERMS OF USE

1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
2. Contents within this document are subject to improvement and enhancement changes without notice.
3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
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