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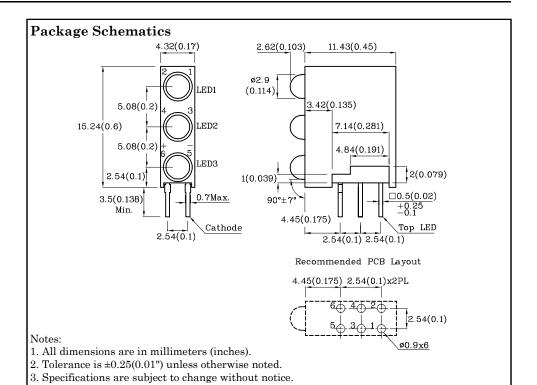
Features

- Housing material: Type 66 Nylon
- Black casing provides superior contrast
- Housing UL rating: 94V-0
- Reliable & robust
- Custom color combinations available
- RoHS Compliant

Dec 07,2020







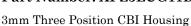
| Absolute Maximum Ratings (T _A =25°C) | | Green (GaP) | Unit | | |
|--|---------------------|----------------|------|--|--|
| Reverse Voltage | $V_{\rm R}$ | 5 | V | | |
| Forward Current | I_{F} | 25 | mA | | |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | i_{FS} | 140 | mA | | |
| Power Dissipation | P_{D} | 62.5 | mW | | |
| Operating Temperature | $T_{\rm A}$ | -40 ~ +85 | °C | | |
| Storage Temperature | Tstg | -40 ~ +85 | C | | |
| 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) | | Green (GaP) | Unit |
|--|------------------|----------------|------|
| Forward Voltage (Typ.) (I _F =10mA) | V_{F} | 2 | V |
| Forward Voltage (Max.) (I _F =10mA) | V_{F} | 2.4 | V |
| Reverse Current (Max.) $(V_R=5V)$ | I_R | 10 | μА |
| Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA) | λP | 565* | nm |
| Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$ | λD | 568* | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA) | Δλ | 30 | nm |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | С | 15 | pF |

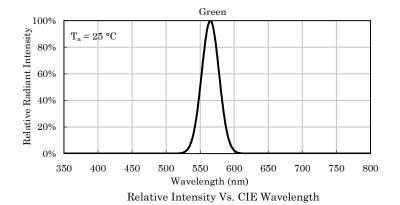
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity CIE127-2007* (I _F =10mA) mcd | | Wavelength CIE127-2007* nm λP | Viewing Angle 20 1/2 |
|----------------|-------------------|----------------------|----------------|---|------|-------------------------------------|----------------------------|
| | | | | min. | typ. | | |
| XPZ3LUG11D | Green | GaP | Green Diffused | 10* | 24* | 565* | 50° |

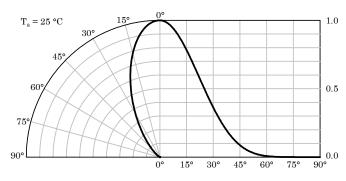
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.





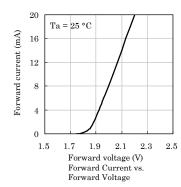


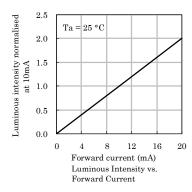


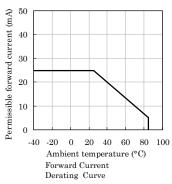


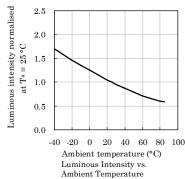
Spatial Distribution

❖ Green

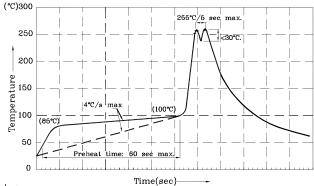








Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



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).
- $3.\mathrm{Do}$ not apply stress to the epoxy resin while the temperature is above $85^{\circ}\mathrm{C}$. $4.\mathrm{Fixtures}$ 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, or wavelength),

the typical accuracy of the sorting process is as follows:

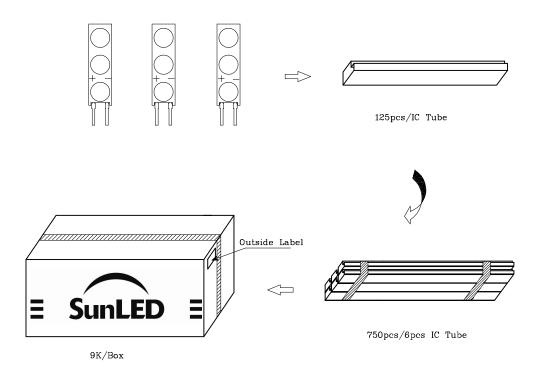
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

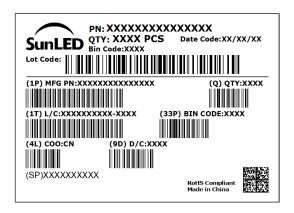
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





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