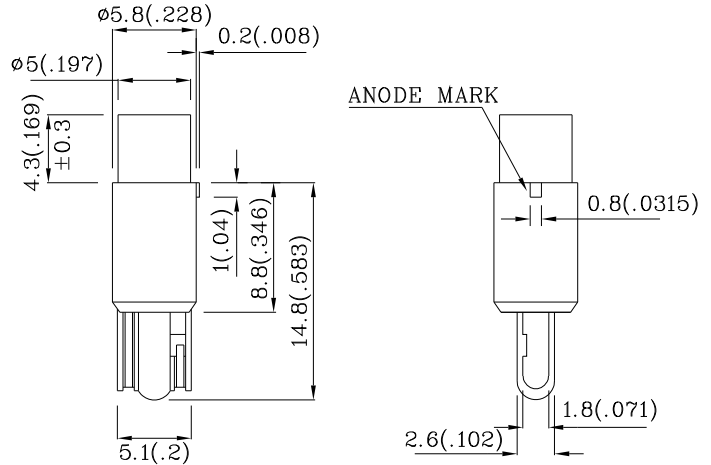


PRELIMINARY SPEC

Features

- LONG LIFE, SOLID STATE.
- WITH BUILT-IN RESISTOR FOR 14V DC APPLICATION.
- WEDGE BASE, EASY INSTALLATION & REPLACEMENT.
- UL RATING : 94V-0.
- HOUSING MATERIAL: TYPE 66 NYLON.
- 14V INTERNAL RESISTOR.



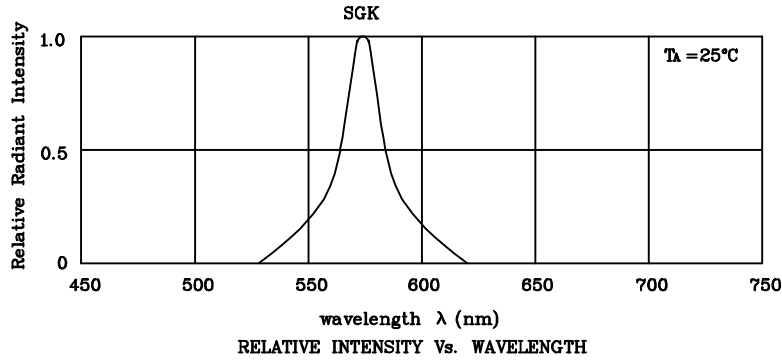
Notes:

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.

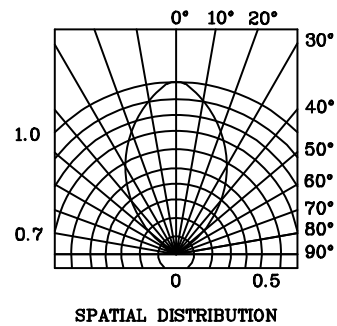
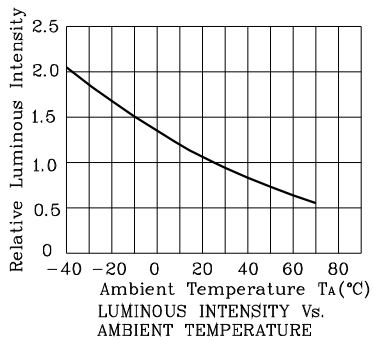
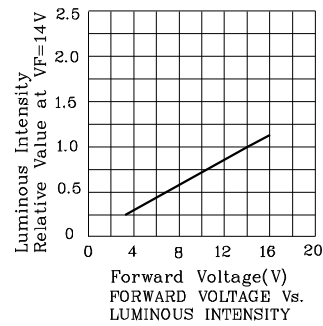
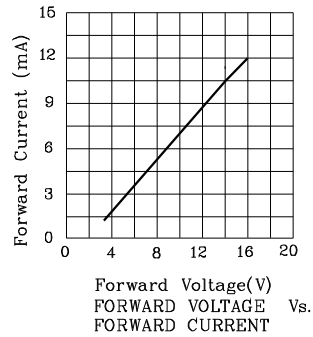
| Absolute Maximum Ratings (TA=25°C) | | SGK (InGaAlP) | Unit |
|---|---------------------|------------------|------|
| Reverse Voltage | V _R | 5 | V |
| Forward Current | V _F | 16 | V |
| Power Dissipation | P _T | 160 | mW |
| Operating Temperature | T _A | -40 ~ +70 | °C |
| Storage Temperature | 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) | | SGK (InGaAlP) | Unit |
|---|----------------|------------------|------|
| Forward Current (Typ.) (V _F =14V) | I _F | 10.5 | mA |
| Forward Current (Max.) (V _F =14V) | I _F | 13.5 | mA |
| Reverse Current (Max.) (V _R =5V) | I _R | 10 | uA |
| Wavelength of Peak Emission (Typ.) (V _F =14V) | λ P | 574 | nm |
| Wavelength of Dominant Emission (Typ.) (V _F =14V) | λ D | 570 | nm |
| Spectral Line Full Width At Half-Maximum (Typ.) (V _F =14V) | Δλ | 20 | nm |

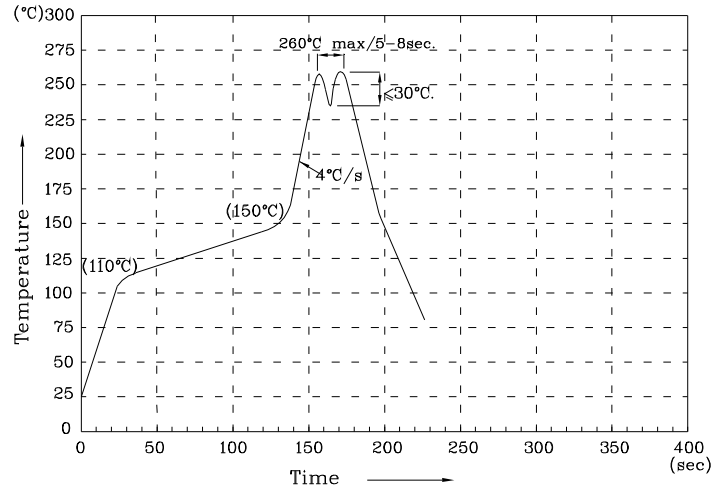
| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (V=14V) mcd | | Wavelength nm λ P | Viewing Angle 2θ 1/2 |
|--|----------------|-------------------|-------------|--------------------------------------|------|-------------------------|-------------------------|
| | | | | min. | typ. | | |
| XNZSSGK52W14V02 | Green | InGaAlP | Water Clear | 12 | 44 | 574 | 70° |
| Published Date : JAN 26, 2008 Drawing No : XDSA9764 V2 Checked : B.L.LIU P.1/4 | | | | | | | |



❖ SGK



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:

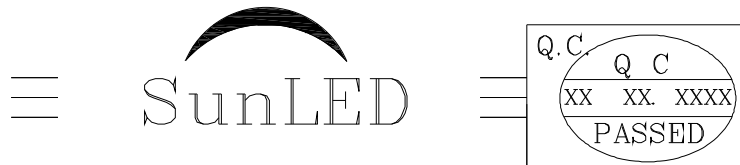
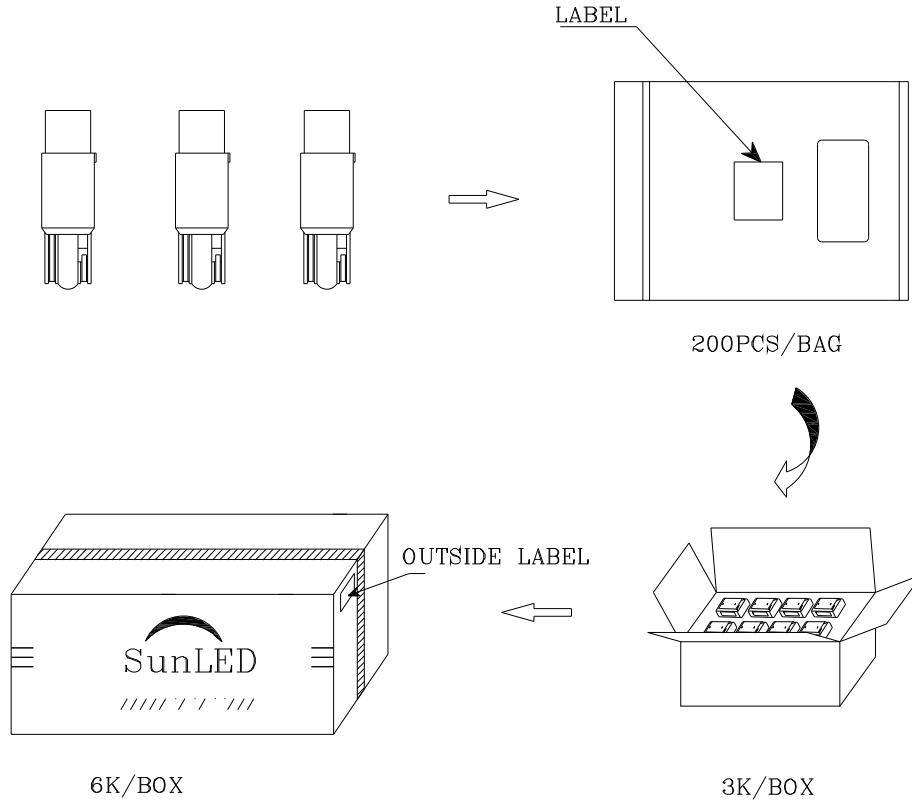
If special sorting is required (e.g. binning based on Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

XNZSSGK52W14V02



| | |
|--|-----------|
| P/N0 : XNZSxxx52xx02 | |
| QTY : 200 pcs | CODE: XXX |
| S/N : XX | |
| LOT NO: | |
|  XXXXXXXXXXXXXXXXXXXXXXXX | |
| RoHS Compliant | |