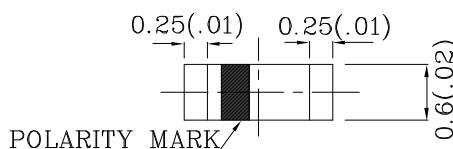
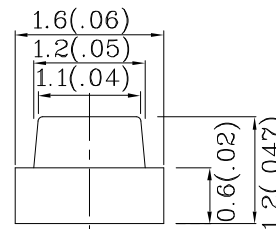
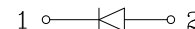
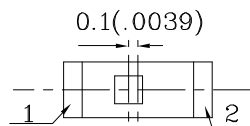


- 1.6mmx0.6mm RIGHT ANGLE SMT LED, 1.2mm THICKNESS.
- LOW POWER CONSUMPTION.
- WIDE VIEWING ANGLE.
- IDEAL FOR BACKLIGHT AND INDICATOR.
- VARIOUS COLORS AND LENS TYPES AVAILABLE.
- PACKAGE : 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.



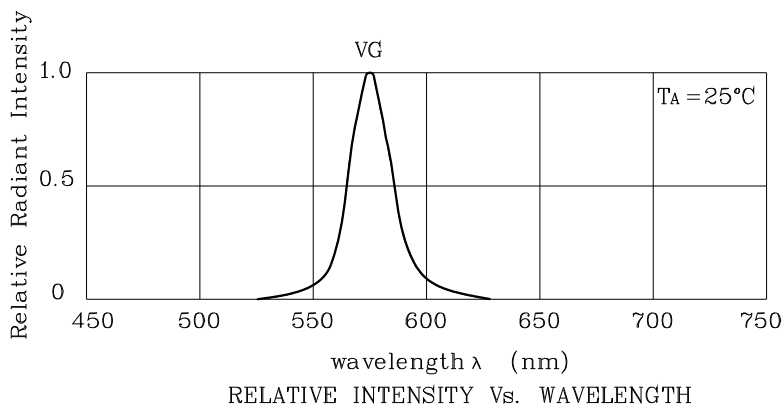
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.1(0.004")$  unless otherwise noted.
3. Specifications are subject to change without notice.



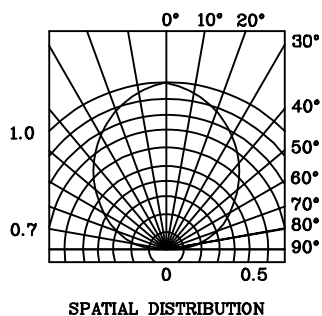
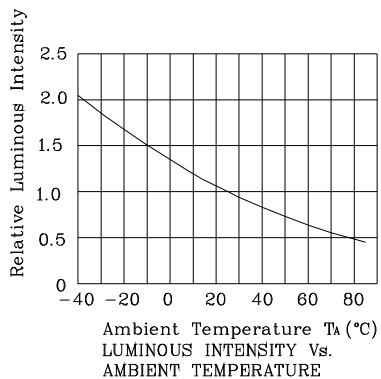
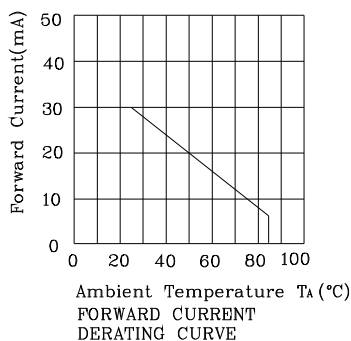
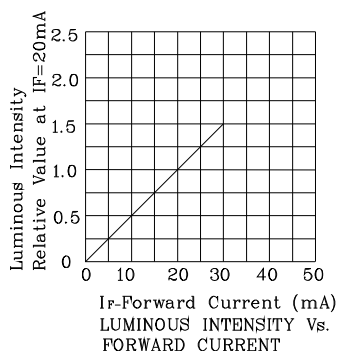
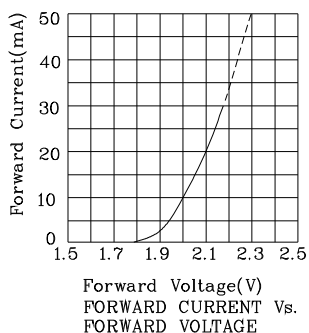
| Absolute Maximum Ratings<br>(TA=25°C)                          |      | VG<br>(InGaAlP) | Unit |
|----------------------------------------------------------------|------|-----------------|------|
| Reverse Voltage                                                | VR   | 5               | V    |
| Forward Current                                                | IF   | 30              | mA   |
| Forward Current (peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | iFS  | 150             | mA   |
| Power Dissipation                                              | PT   | 75              | mW   |
| Operating Temperature                                          | TA   | -40 ~ +85       | °C   |
| Storage Temperature                                            | Tstg | -40 ~ +85       |      |

| Operating Characteristics<br>(TA=25°C)                          |                 | VG<br>(InGaAlP) | Unit |
|-----------------------------------------------------------------|-----------------|-----------------|------|
| Forward Voltage (Typ.)<br>(IF=20mA)                             | V <sub>F</sub>  | 2.1             | V    |
| Forward Voltage (Max.)<br>(IF=20mA)                             | V <sub>F</sub>  | 2.5             | V    |
| Reverse Current (Max.)<br>(VR=5V)                               | I <sub>R</sub>  | 10              | uA   |
| Wavelength Of Peak<br>Emission (Typ.)<br>(IF=20mA)              | $\lambda$ P     | 574             | nm   |
| Wavelength Of Dominant<br>Emission (Typ.)<br>(IF=20mA)          | $\lambda$ D     | 570             | nm   |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(IF=20mA) | $\Delta\lambda$ | 20              | nm   |
| Capacitance (Typ.)<br>(VF=0V, f=1MHz)                           | C               | 15              | pF   |

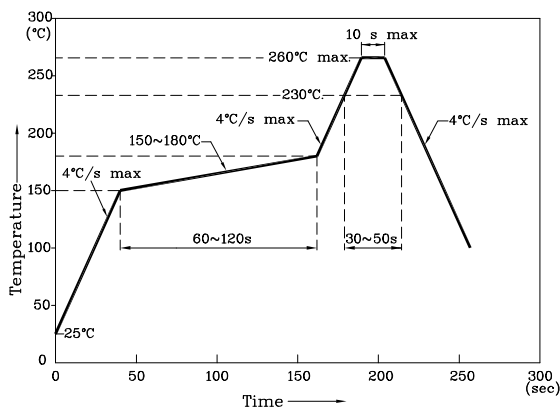
| Part Number                  | Emitting Color | Emitting Material    | Lens-color  | Luminous Intensity (IF=20mA)<br>mcd | Wavelength<br>nm<br>λ P | Viewing Angle<br>2 θ 1/2 |
|------------------------------|----------------|----------------------|-------------|-------------------------------------|-------------------------|--------------------------|
|                              |                |                      |             | min.                                | typ.                    |                          |
| ZVG87W                       | Green          | InGaAlP              | Water Clear | 18                                  | 59                      | 574                      |
|                              |                |                      |             |                                     |                         |                          |
|                              |                |                      |             |                                     |                         |                          |
| Published Date : FEB 25,2008 |                | Drawing No :SDSA4475 |             | V4                                  | Checked : B.L.LIU       | P.1/4                    |



❖ VG



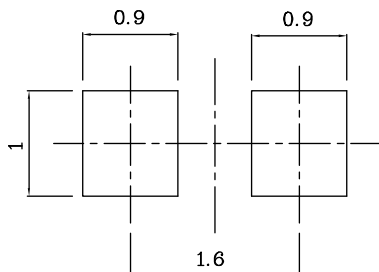
Reflow Soldering Profile For Lead-free SMT Process.



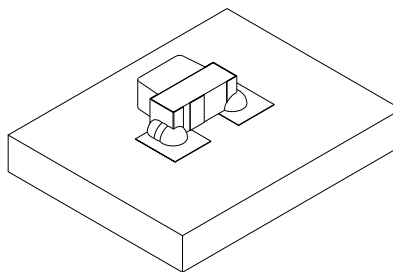
NOTES:

1. Maximum soldering temperature should not exceed 260°C.
2. Recommended reflow temperature: 145°C~260°C.
3. Do not put stress to the epoxy resin during high temperatures conditions.

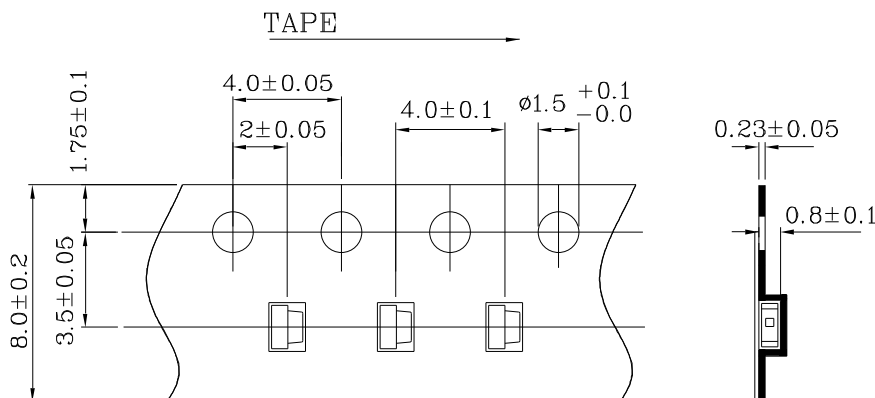
❖ Recommended Soldering Pattern  
(Units : mm; Tolerance:  $\pm 0.1$ )



❖ The device has a single mounting surface. The device must be mounted according to the specifications.



❖ Tape Specification (Units : mm)



Remarks:

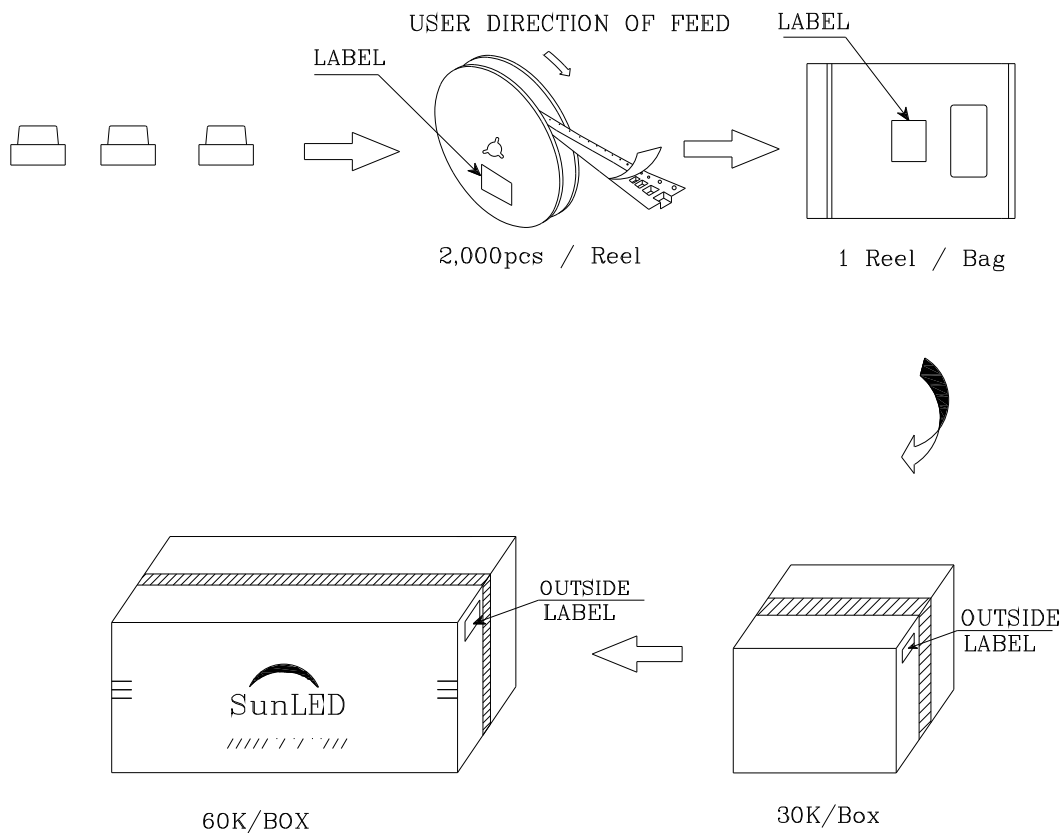
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength:  $\pm 1\text{nm}$
2. Luminous intensity / Luminous Flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**ZVG87W**



**SunLED**

|                                                                                                              |           |
|--------------------------------------------------------------------------------------------------------------|-----------|
| P/NO : Zxx87x                                                                                                |           |
| QTY : 2000 pcs                                                                                               | CODE: XXX |
| S/N : XX                                                                                                     |           |
| LOT NO:                                                                                                      |           |
| <br>XXXXXXXXXXXXXXXXXXXX |           |
| RoHS Compliant                                                                                               |           |

Q.C

Q c

XX XX XXXX

PASSED