



# THE DATASHEET OF XZVG68W-2



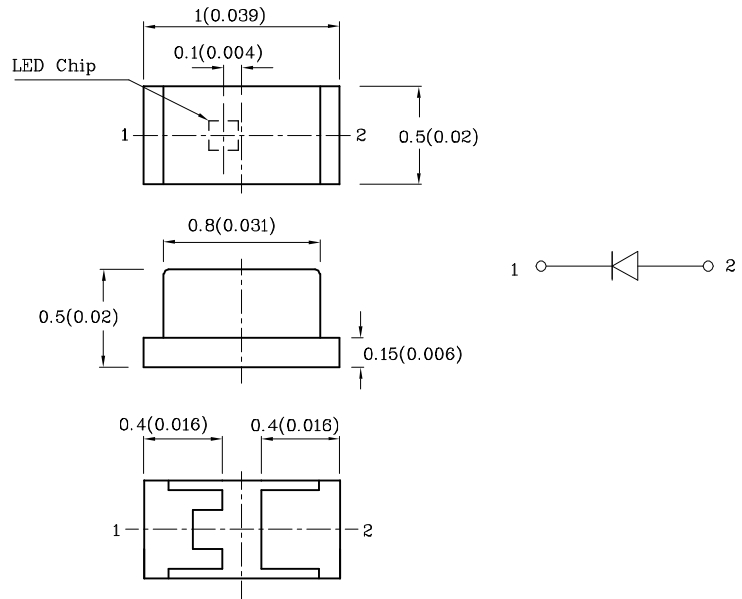
### Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

### Package Schematics



#### Notes:

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.

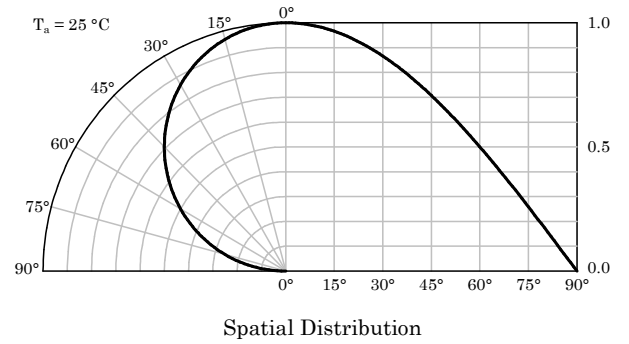
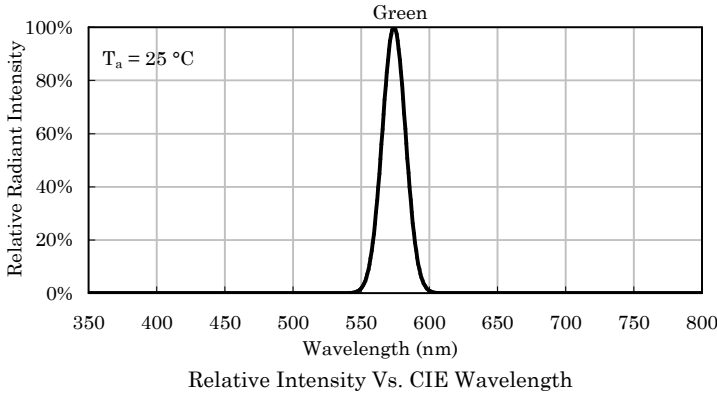
| Absolute Maximum Ratings<br>( $T_A=25^\circ\text{C}$ )         |           | Green<br>(AlGaInP) | Unit |
|--|-----------|--------------------|------|
| Reverse Voltage  | $V_R$     | 5                  | V    |
| Forward Current  | $I_F$     | 30                 | mA   |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | $i_{FS}$  | 150                | mA   |
| Power Dissipation  | $P_D$     | 75                 | mW   |
| Operating Temperature  | $T_A$     | -40 ~ +85          | °C   |
| Storage Temperature  | $T_{stg}$ | -40 ~ +85          |      |

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)

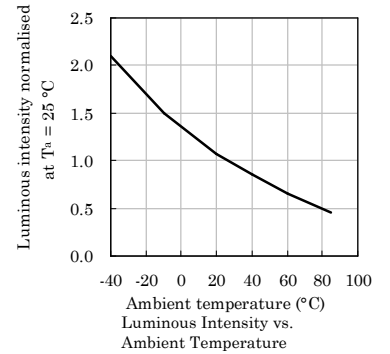
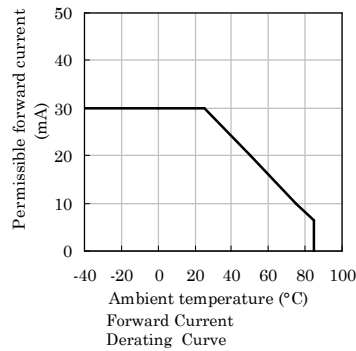
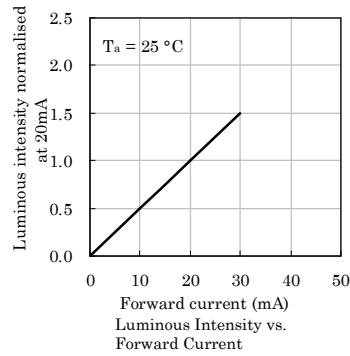
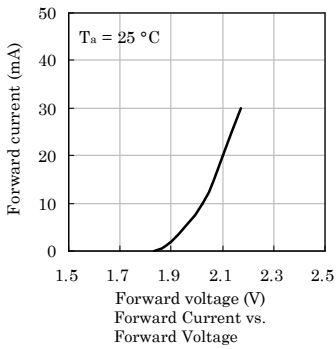
| Operating Characteristics<br>( $T_A=25^\circ\text{C}$ )                         |                 | Green<br>(AlGaInP) | Unit          |
|---|-----------------|--------------------|---------------|
| Forward Voltage (Typ.)<br>( $I_F=20\text{mA}$ )                                 | $V_F$           | 2.1                | V             |
| Forward Voltage (Max.)<br>( $I_F=20\text{mA}$ )                                 | $V_F$           | 2.5                | V             |
| Reverse Current (Max.)<br>( $V_R=5\text{V}$ )                                   | $I_R$           | 10                 | $\mu\text{A}$ |
| Wavelength of Peak<br>Emission CIE127-2007*(Typ.)<br>( $I_F=20\text{mA}$ )      | $\lambda_P$     | 574*               | nm            |
| Wavelength of Dominant<br>Emission CIE127-2007* (Typ.)<br>( $I_F=20\text{mA}$ ) | $\lambda_D$     | 570*               | nm            |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>( $I_F=20\text{mA}$ )     | $\Delta\lambda$ | 20                 | nm            |
| Capacitance (Typ.)<br>( $V_F=0\text{V}$ , $f=1\text{MHz}$ )                     | C               | 15                 | pF            |

| Part Number | Emitting Color | Emitting Material | Lens-color  | Luminous Intensity<br>CIE127-2007*<br>( $I_F=20\text{mA}$ )<br>mcd |      | Wavelength<br>CIE127-2007*<br>nm<br>$\lambda_P$ | Viewing Angle<br>2 $\theta$ 1/2 |
|-------------|----------------|-------------------|-------------|--|------|---|---------------------------------|
|             |                |                   |             | min.   | typ. |   |                                 |
| XZVG68W-2   | Green          | AlGaInP           | Water Clear | 20*  | 49*  | 574*  | 120°                            |

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

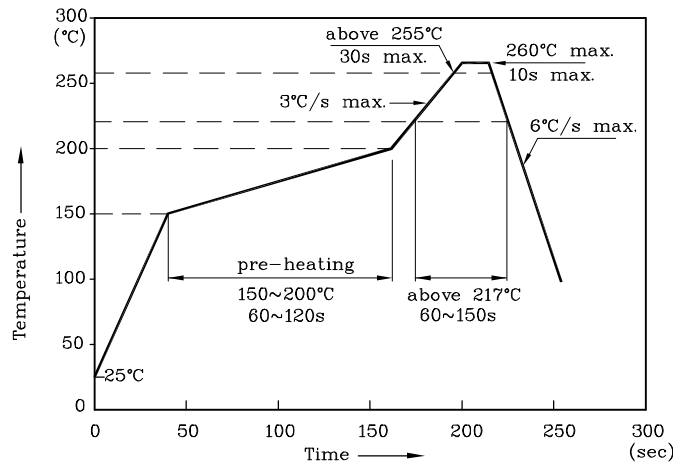


❖ Green



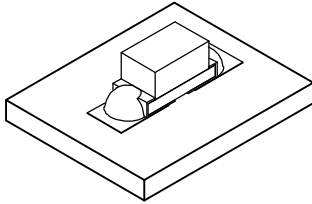
**LED is recommended for reflow soldering and soldering profile is shown below.**

Reflow Soldering Profile for SMD Products (Pb-Free Components)

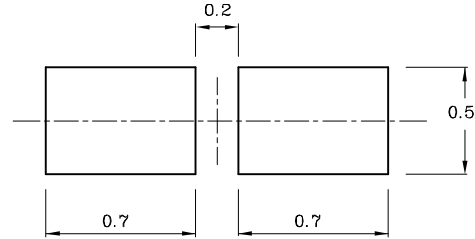




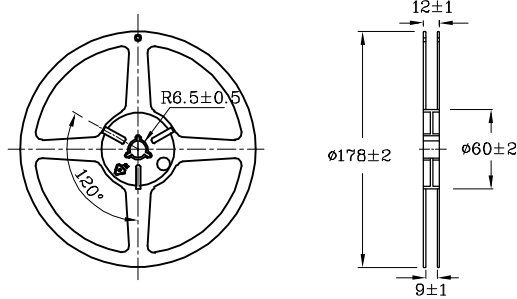
❖ The device has a single mounting surface.  
The device must be mounted according to the specifications.



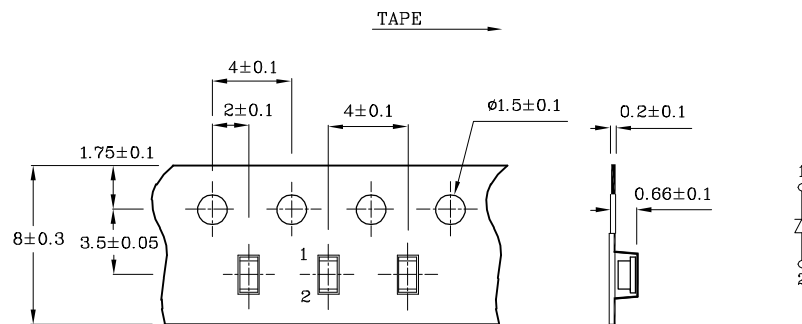
❖ Recommended Soldering Pattern  
(Units : mm; Tolerance:  $\pm 0.1$ )



❖ Reel Dimension (Units : mm)



❖ Tape Specification (Units : mm)



Remarks:

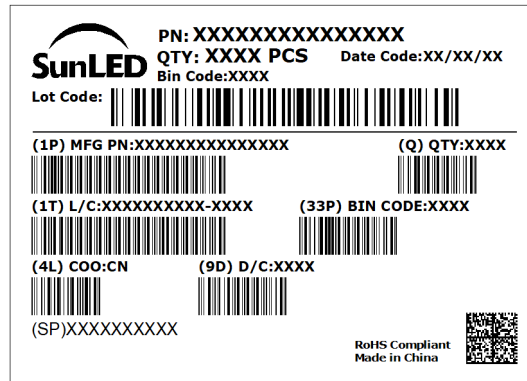
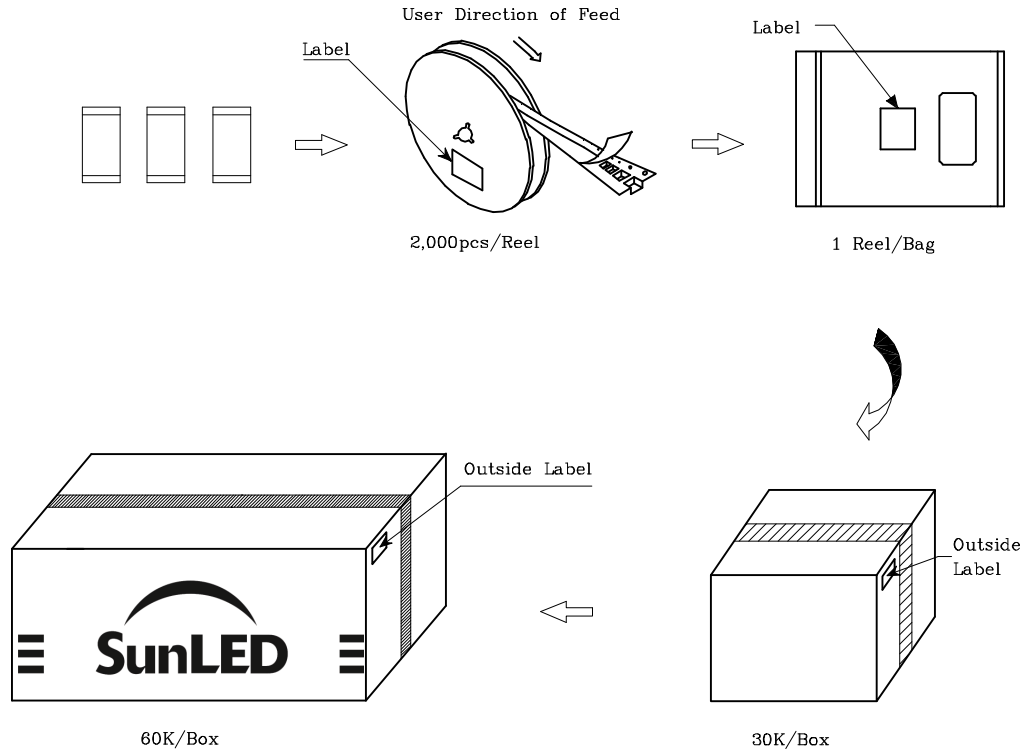
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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**



**TERMS OF USE**

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