

## Part Number: XZMYK55W-A2

3.2 x 1.6 mm SMD Chip LED Lamp

## Features

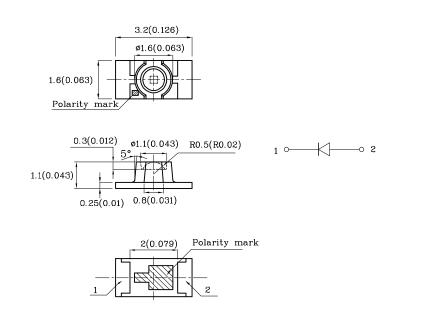
- Ideal for indication light on hand held products
- $\bullet$  Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant





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 <sub>A</sub> =25°C)             |                           | Yellow<br>(AlGaInP) | Unit |  |
|--|---------------------------|---------------------|------|--|
| Reverse Voltage V  |                           | 5                   | V    |  |
| Forward Current  | $\mathbf{I}_{\mathrm{F}}$ | 30                  | mA   |  |
| Forward Current (Peak)<br>1/10 Duty Cycle<br>0.1ms Pulse Width | ifs                       | 175                 | mA   |  |
| Power Dissipation  | $\mathbf{P}_{\mathrm{D}}$ | 75                  | mW   |  |
| Operating Temperature  | TA                        | $-40 \sim +85$      | °C   |  |
| Storage Temperature  | Tstg                      | $-40 \sim +85$      |      |  |

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 <sub>A</sub> =25°C)                              |                    | Yellow<br>(AlGaInP) | Unit        |  |
|--|--------------------|---------------------|-------------|--|
| Forward Voltage (Typ.)<br>(I <sub>F</sub> =20mA)                                 | $V_{\rm F}$        | 2                   | V           |  |
| Forward Voltage (Max.)<br>(I <sub>F</sub> =20mA)                                 | $V_{\rm F}$        | 2.5                 | V           |  |
| Reverse Current (Max.)<br>(V <sub>R</sub> =5V)                                   | $I_R$              | 10                  | μΑ          |  |
| Wavelength of Peak<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =20mA)     | λP                 | 590*                | nm          |  |
| Wavelength of Dominant<br>Emission CIE127-2007* (Typ.)<br>(I <sub>F</sub> =20mA) | λD                 | 590*                | nm          |  |
| Spectral Line Full Width<br>At Half-Maximum (Typ.)<br>(I <sub>F</sub> =20mA)     | $	riangle \lambda$ | 20                  | nm          |  |
| Capacitance (Typ.)<br>(V <sub>F</sub> =0V, f=1MHz)                               | С                  | 20                  | $_{\rm pF}$ |  |

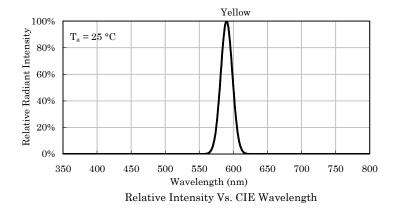
| Part<br>Number | Emitting<br>Color | Emitting<br>Material | Lens-color  | Luminous Intensity<br>CIE127-2007*<br>(I <sub>F</sub> =20mA)<br>mcd |      | Wavelength<br>CIE127-2007*<br>nm λΡ | Viewing<br>Angle<br>20 1/2 |
|----------------|-------------------|----------------------|-------------|---|------|-------------------------------------|----------------------------|
|                |                   |                      |             | min.  | typ. |                                     |                            |
| XZMYK55W-A2    | Yellow            | AlGaInP              | Water Clear | 200*  | 347* | 590*                                | 80°                        |

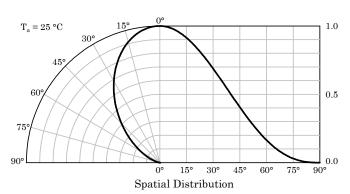
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Nov 30,2020

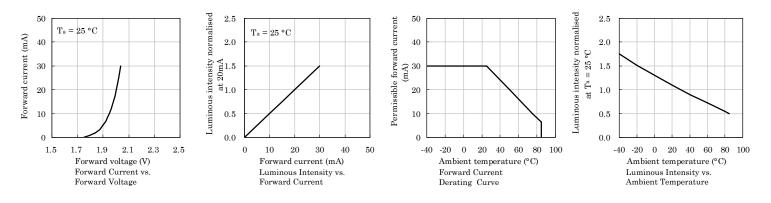
XDSA9495 V7-Z Layout: Maggie L.



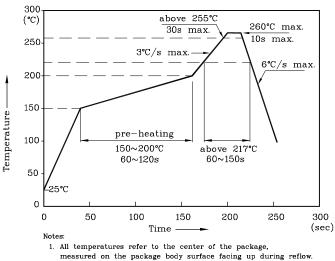




### **♦** Yellow



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



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

2. Do not apply any stress to the LED during high temperature conditions. 3. Maximum number of soldering passes: 2



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

### Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

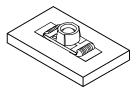
1.6

1.6

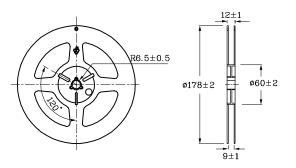
1.8

3.4

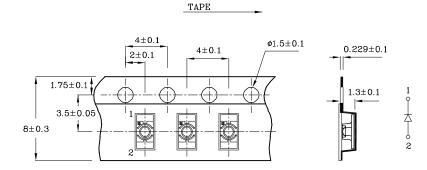
1.6



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: +/-1nm

2. Luminous intensity / luminous flux: +/-15%

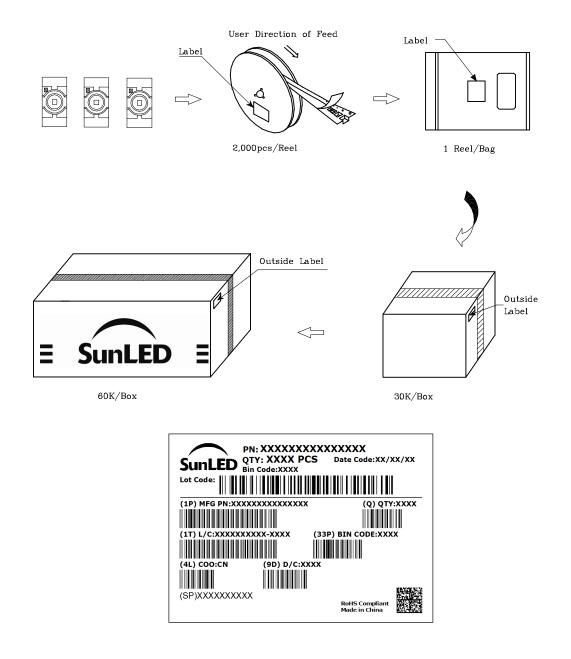
3. Forward Voltage: +/-0.1V  $\,$ 

Note: Accuracy may depend on the sorting parameters.

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# **PACKING & LABEL SPECIFICATIONS**



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