

Part Number: XZMDK53W-3

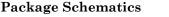
1.6 x 0.8mm SMD Chip LED Lamp

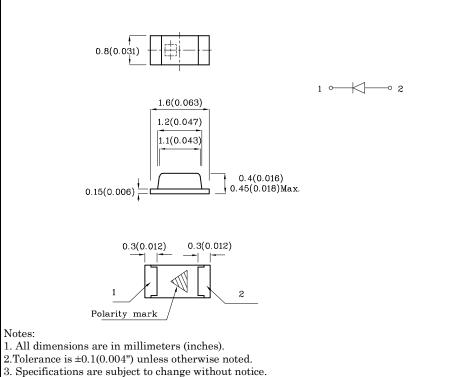
- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES





Absolute Maximum Ratings Red Unit (T_A=25°C) (AlGaInP) **Reverse Voltage** V_{R} $\mathbf{5}$ V Forward Current \mathbf{I}_{F} 30 mА Forward Current (Peak) 1/10 Duty Cycle i_{FS} 185mА 0.1ms Pulse Width Power Dissipation \mathbf{P}_{D} 75mW **Operating Temperature** $T_{\rm A}$ $-40 \sim +85$ °C Tstg Storage Temperature $-40 \sim +85$

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 (T _A =25°C)	Red (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	1.95	V
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	V
Reverse Current (Max.) (V _R =5V)	I_R	10	μΑ
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λP	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle\lambda$	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	pF

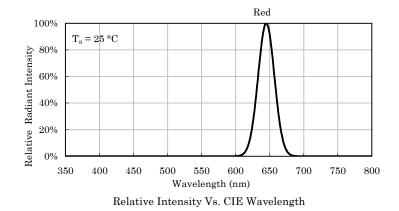
 Part Number	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 (I _F =20m	-2007*	Wavelength CIE127-2007* nm λΡ	Viewing Angle 20 1/2
				min.	typ.		
XZMDK53W-3	Red	AlGaInP	Water Clear	120 40*	228 79*	645*	120°

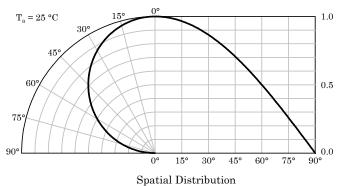
 ${\rm *Luminous\ intensity\ value\ and\ wavelength\ are\ in\ accordance\ with\ CIE127-2007\ standards.}$

Dec 01,2020

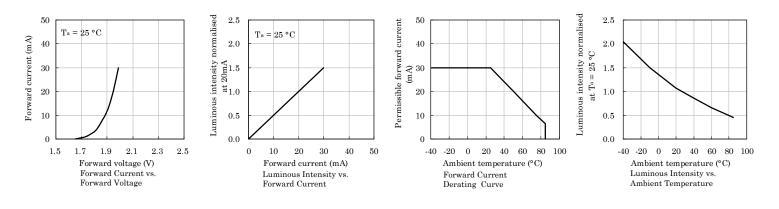
XDSA4070 V11-X Layout: Maggie L.



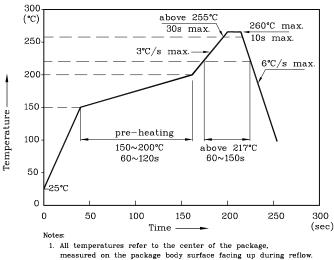








LED is recommended for reflow soldering and soldering profile is shown below.



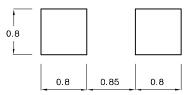
Reflow Soldering Profile for SMD Products (Pb-Free Components)

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

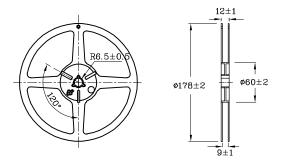


✤ The device has a single mounting surface. The device must be mounted according to the specifications.

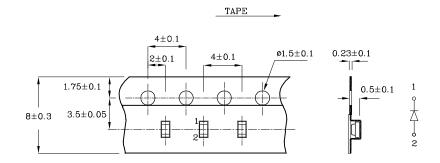
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



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%

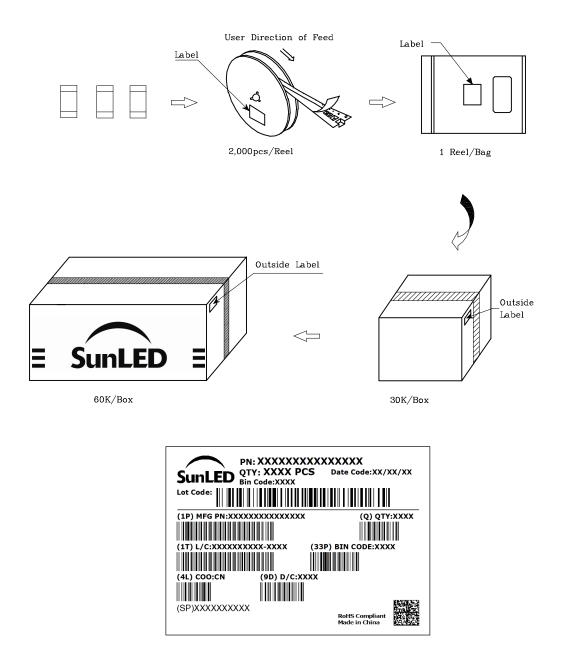
3. Forward Voltage: +/-0.1V $\,$

Note: Accuracy may depend on the sorting parameters.

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PACKING & LABEL SPECIFICATIONS



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