

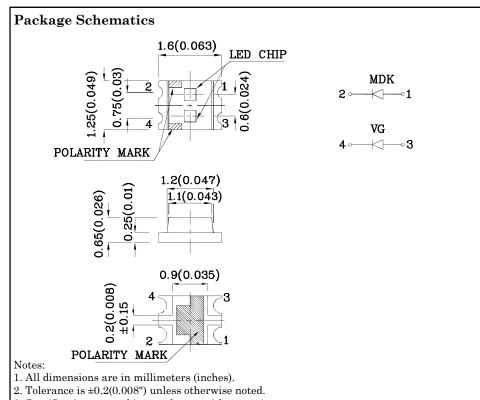
### Part Number: XZMDKVG62W-1

1.6X1.25mm BI-COLOR SMD CHIP LED LAMP

#### Features

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





3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit
Reverse Voltage	$V_{\mathrm{R}}$	5	5	V
Forward Current	$I_{\rm F}$	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	185	150	mA
Power Dissipation	$P_{D}$	75	75	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85		•C
Storage Temperature	Tstg	-40 ~ +85		

Operating Characteristics (T <sub>A</sub> =25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit		
Forward Voltage (Typ.) (I <sub>F</sub> =20mA)		V <sub>F</sub>	1.95	2.1	V	
Forward Voltage (Max.) (I <sub>F</sub> =20mA)		V <sub>F</sub>	2.5	2.5	v	
Reverse Current (Max.) $(V_R=5V)$		$I_{R}$	10	10	uA	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)		λP	645*	574*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)		λD	630*	570*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =20mA)		$ riangle \lambda$	28	20	nm	
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)		С	35	15	pF	
Lens-color	Luminous Intensity CIE127-2007* (I <sub>F</sub> =20mA) mcd		y Waveler CIE127-2 nm λ	2007* An	Viewing Angle 20 1/2	
	min.	typ.				
Water Olar	120 40*	198 79*	645'	645*		
- Water Clear -	20	49	574*	12 574*		

49\*

20\*

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

Emitting

 $\operatorname{Color}$ 

Red

Green

Emitting

Material

AlGaInP

AlGaInP

Mar 07,2014

Part

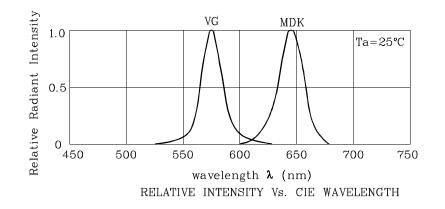
Number

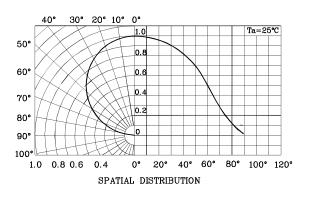
XZMDKVG62W-1

XDSA9516 V5-X Layout: Maggie L.

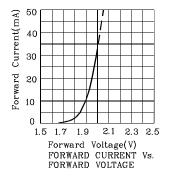
574\*

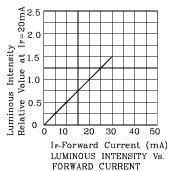


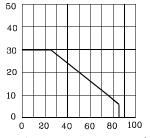




♦ MDK

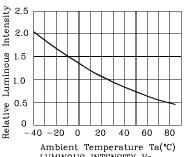


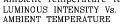




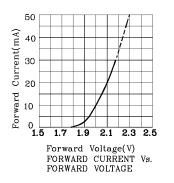
Forward Current(mA)

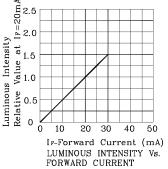


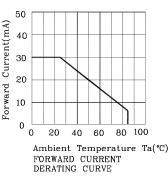


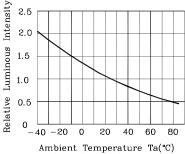


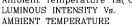
♦ VG







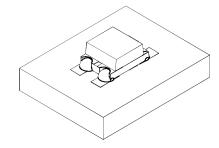






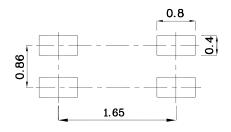
LED is recommended for reflow soldering and soldering profile is shown below.

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

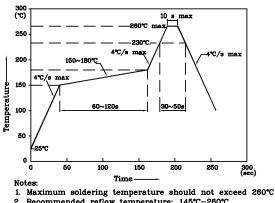


Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

Reel Dimension



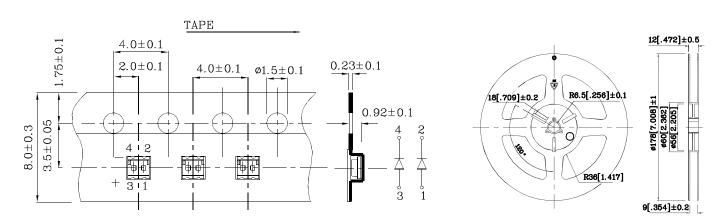
# Reflow Soldering Profile for SMD Products (Pb-Free Components)



Recommended reflow temperature: 145°C-260°C
Do not put stress to the epoxy resin during

high temperatures conditions

## 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

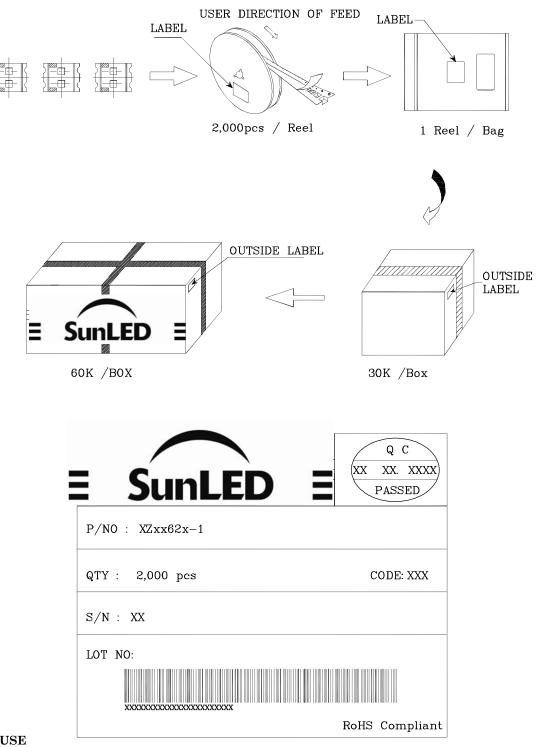
2. Luminous intensity / luminous flux: +/-15%

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

Note: Accuracy may depend on the sorting parameters.



### PACKING & LABEL SPECIFICATIONS



#### TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet.
- User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please
- consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- 6. Additional technical notes are available at http://www.SunLEDusa.com/TechnicalNotes.asp