

Part Number: XZMDKVG55W-8RT

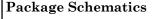
3.2x1.6mm SMD CHIP LED LAMP

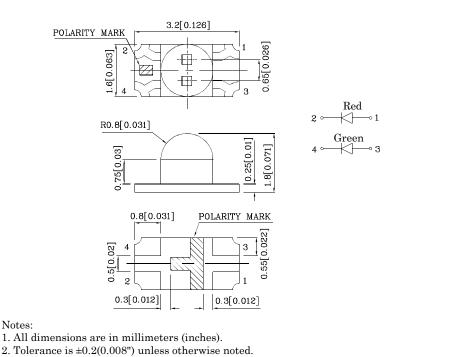
- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- RoHS compliant





ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES





3. Specifications are subject to change without notice.

Red **Absolute Maximum Ratings** Green Unit (T_A=25°C) (AlGaInP) (AlGaInP) **Reverse** Voltage V_{R} $\mathbf{5}$ $\mathbf{5}$ V Forward Current \mathbf{I}_{F} 30 30 mА Forward Current (Peak) 1/10 Duty Cycle ifs 185150mА 0.1ms Pulse Width 75Power Dissipation P_{D} mW 75**Operating Temperature** T_A $-40 \sim +85$ °C Storage Temperature Tstg $\text{-}40 \sim +85$

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)	Green (AlGaInP)	Unit	
Forward Voltage (Typ (I _F =20mA)	.)	$V_{\rm F}$	1.95	2.1	v	
Forward Voltage (Max (I _F =20mA)	$V_{\rm F}$	2.5	2.5	v		
Reverse Current (Max (V _R =5V)	I_{R}	10	10	uA		
Wavelength of Peak Emission CIE127-200 (I _F =20mA)	λP	645*	574*	nm		
Wavelength of Domina Emission CIE127-200 (I _F =20mA)	λD	630*	570*	nm		
Spectral Line Full Wid At Half-Maximum (Ty (I _F =20mA)	$ riangle \lambda$	28	20	nm		
Capacitance (Typ.) (V _F =0V, f=1MHz)		С	35	15	pF	
Lens-color	Luminous Intensity CIE127-2007* (IF=20mA) mcd		Wavelen CIE127-2 nm λl	007* Ang	Viewing Angle 20 1/2	
	min.	typ.				
	700	1495	645*			

Part Number	Emitting Color	Emitting Material	Lens-color	CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Angle 20 1/2
				min.	typ.		
XZMDKVG55W-8RT —	Red	AlGaInP	- Water Clear	700 300*	1495 597*	645*	30°
	Green	AlGaInP		120 120*	248 248*	574*	

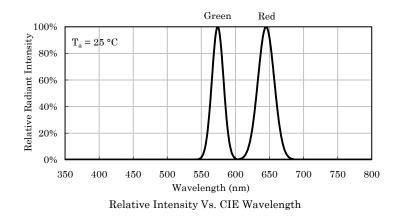
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

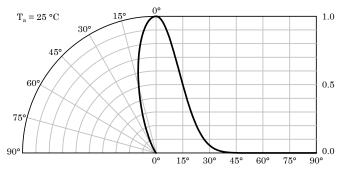
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XDSB2758 V6-X Layout: Maggie L.



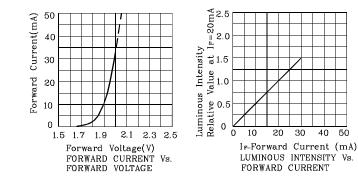
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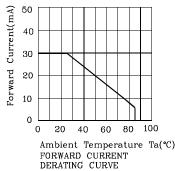


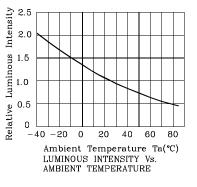


Spatial Distribution

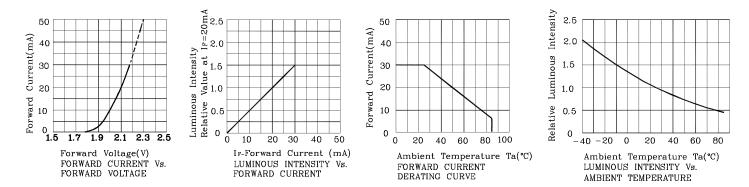
Red







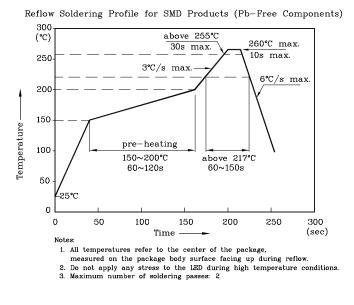
Green



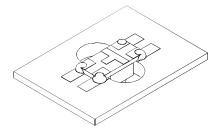
XDSB2758 V6-X Layout: Maggie L.



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

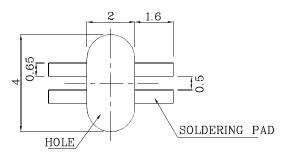


✤ The device has a single mounting surface. The device must be mounted according to the specifications.



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

Reel Dimension



Tape Specification (Units : mm)

TAPE 12[.472]±0.5 4.0 ± 0.1 1.75 ± 0.1 Ø1.5±0.1 2 ± 0.1 4.0 ± 0.1 0.23 ± 0.1 R6.5[.256]±0,1 18[.709]±0.2 .78[7.008]±1 2.362] 2.205] 2 ± 0.1 05 0±0.3 C 500 Д 5±0. 2 ٩4 ω. က် R36[1.417] 3 1 EMITTING 9[.354]±0.2

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

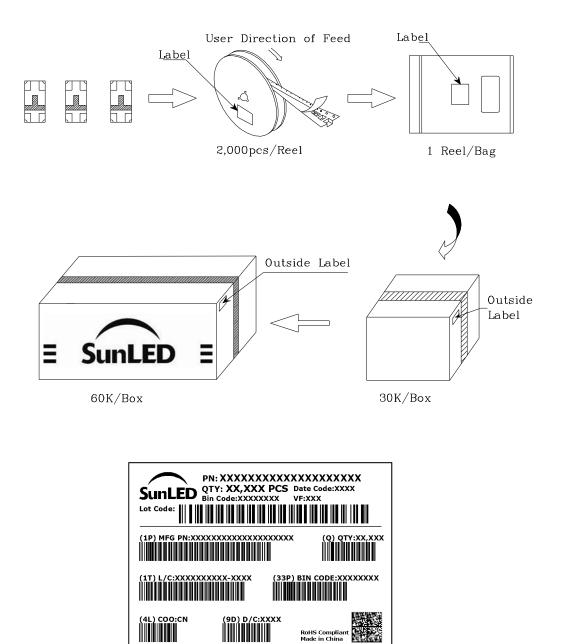
2. Luminous intensity / luminous flux: +/-15%

3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



PACKING & LABEL SPECIFICATIONS



RoHS Complian Made in China

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.
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- 6. Additional technical notes are available at http://www.SunLEDusa.com/TechnicalNotes.asp

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