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Features

• Ideal for indication light on hand held products

• Long life and robust package

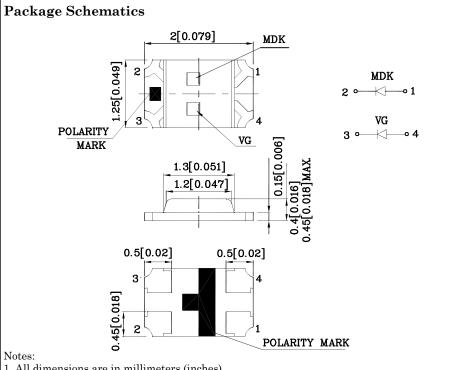
• Standard Package: 2,000pcs/ Reel

 \bullet MSL (Moisture Sensitivity Level): 3

• RoHS compliant







- 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 (T _A =25°C)		MDK (AlGaInP)	VG (AlGaInP)	Unit
Reverse Voltage	V_{R}	5	5	V
Forward Current	I_{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 _A =25°C)	MDK (AlGaInP)	VG (AlGaInP)	Unit	
Forward Voltage (Typ.) (I_F =20mA)	V_{F}	1.95	2.1	V
Forward Voltage (Max.) (I_F =20mA)	V_{F}	2.5	2.5	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λΡ	645*	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	630*	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	28	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous CIE127 (I_F =20m	'-2007 *	Wavelength CIE127-2007* nm λP	Viewing Angle 2θ 1/2
				min.	typ.		
XZMDKVG54W-4	Red	AlGaInP	Water Clear -	120 40*	248 79*	645*	120°
	Green	AlGaInP		20 20*	49 49*	574*	

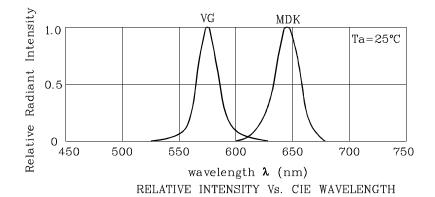
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

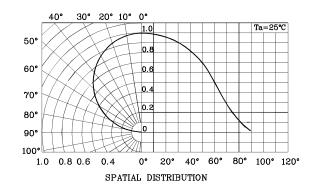
Mar 07,2014

XDSB0168 V8-X Layout: Maggie L.

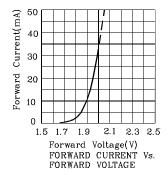


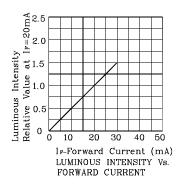


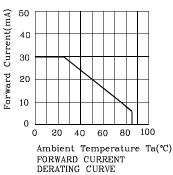


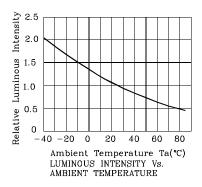


❖ MDK

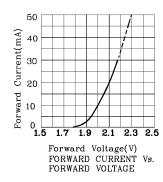


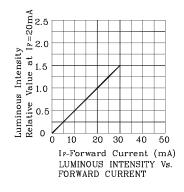


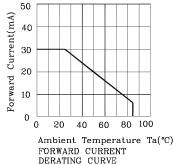


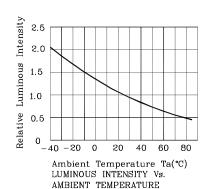


❖ VG







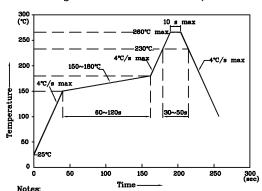






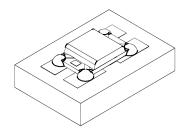
LED is recommended for reflow soldering and soldering profile is shown below.

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

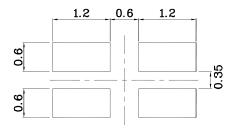


- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

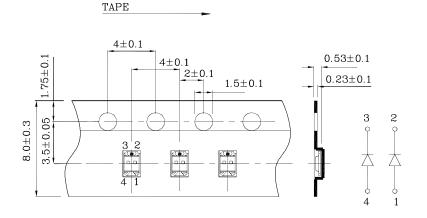
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



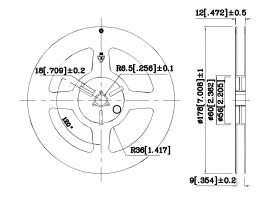
♦ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ Tape Specification (Units:mm)



❖ Reel Dimension



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

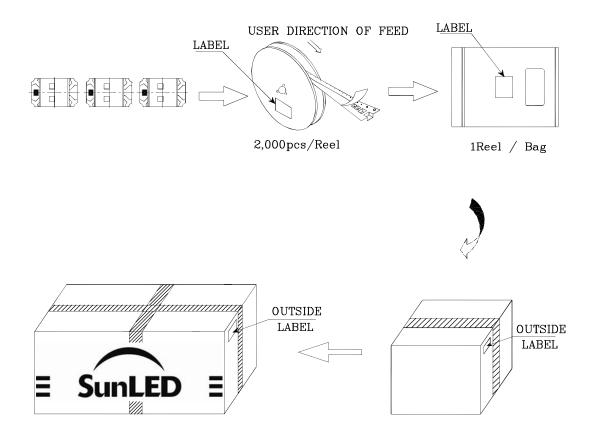
Note: Accuracy may depend on the sorting parameters.

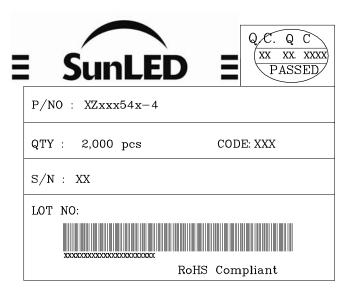
30K/ Box





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.

60K/ Box

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