

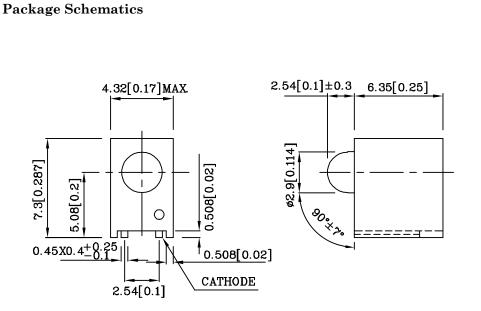
# Part Number: XNK1LUG147DSMD

T-1 (3mm) RIGHT ANGLE LED INDICATOR

#### Features

- Black casing provides superior contrast
- $\bullet$  Reliable & robust
- Standard Package: 500pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Housing UL rating:94V-0.
- Housing material: PPA
- High temperature resistant housing
- High glass transition temperature epoxy
- $\bullet$  RoHS compliant





Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.25 (0.01")$  unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		UG (GaP)	Unit	
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	$I_{\rm F}$	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	mA	
Power Dissipation	$\mathbf{P}_{\mathrm{D}}$	62.5	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85	-0	

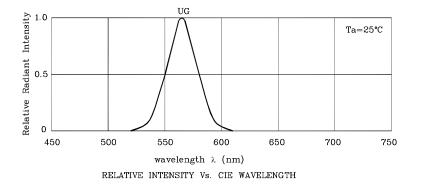
Operating Characteristics (T <sub>A</sub> =25°C)		UG (GaP)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =10mA)	$V_{\rm F}$	2	V
Forward Voltage (Max.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	2.5	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	10	uA
Wavelength of Peak Emission CIE127-2007*(Typ.) (I <sub>F</sub> =10mA)	λP	565*	nm
Wavelength of Dominant Emission CIE127-2007*(Typ.) (I <sub>F</sub> =10mA)	λD	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	$ riangle\lambda$	30	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	pF

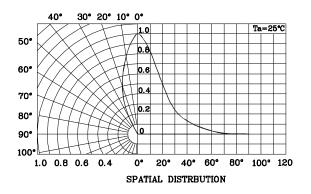
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I <sub>F</sub> =10mA) mcd		Wavelength nm λP	Viewing Angle 20 1/2
				min.	typ.		
XNK1LUG147DSMD	Green	GaP	Green Diffused	8*	24*	565*	40°

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

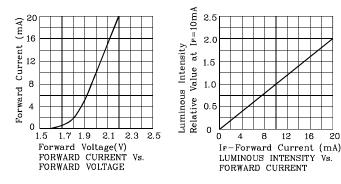
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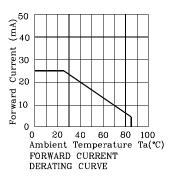




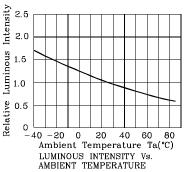


♦ UG

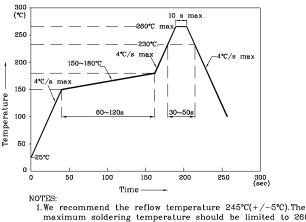




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Reflow Soldering Profile for SMD Products (Pb-Free Components)



maximum soldering temperature should be limited to 260°C. 2.Don't cause stress to the epoxy resin while it is exposed to high temperature. 3.No more than once.

#### Remarks:

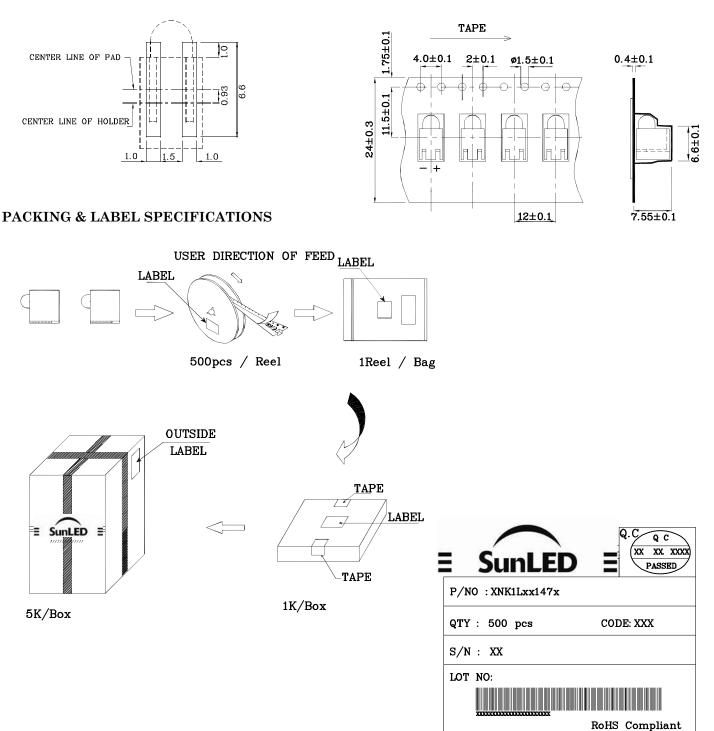
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

- 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.



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

## ✤ Tape Specification (Units : mm)



#### 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 <u>http://www.SunLEDusa.com/TechnicalNotes.asp</u>

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