

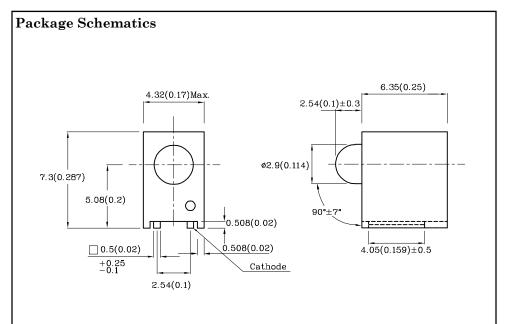
3 mm One Position SMD CBI Housing

## **Features**

- Black casing provides superior contrast
- Reliable & robust
- Standard Package: 500pcs/ Reel
- $\bullet$  MSL (Moisture Sensitivity Level): 3
- Housing UL rating: 94V-0
- Housing material: PPA
- High temperature resistant housing
- High glass transition temperature epoxy
- Halogen-free
- 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)		Green (GaP)	Unit
Reverse Voltage	$V_{\mathrm{R}}$	5	V
Forward Current	$I_{\mathrm{F}}$	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\mathrm{FS}}$	140	mA
Power Dissipation	$P_{D}$	62.5	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

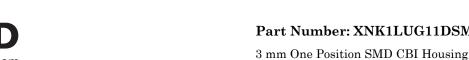
A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Operating Characteristics ( $T_A$ =25°C)		Green (GaP)	Unit
Forward Voltage (Typ.) $(I_F=10\text{mA})$	$V_{\mathrm{F}}$	2	V
Forward Voltage (Max.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	2.4	V
Reverse Current (Max.) $(V_R=5V)$	$I_R$	10	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$	λP	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) $(I_F=10\text{mA})$	λD	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	Δλ	30	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	pF

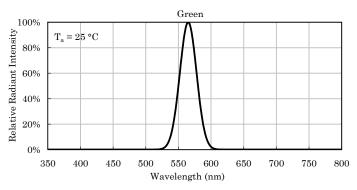
Part Number	Emitting Color	Emitting Material	Lens-color	$\begin{array}{c} \text{Luminous Intensity} \\ \text{CIE127-2007*} \\ \text{(I}_{\text{F}}\text{=}10\text{mA}) \\ \text{mcd} \end{array}$		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XNK1LUG11DSMD	Green	GaP	Green Diffused	10*	24*	565*	50°

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

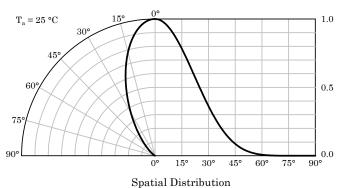
Feb 01,2023 XDSB8834 V3-Z Layout: Maggie L.



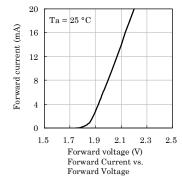


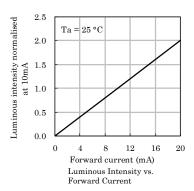


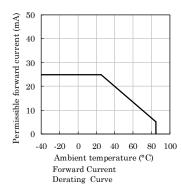
Relative Intensity Vs. CIE Wavelength

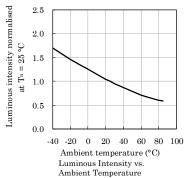


## **❖** Green

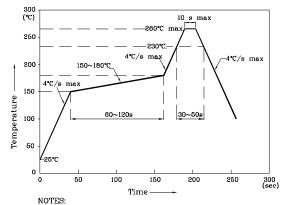








Reflow Soldering Profile for SMD Products (Pb-Free Components)



1. We recommend the reflow temperature  $245^{\circ}\text{C}(+/-5^{\circ}\text{C})$ . The 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

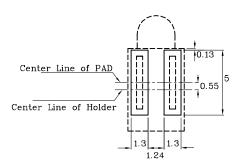
Note: Accuracy may depend on the sorting parameters.

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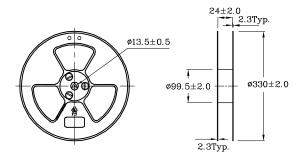
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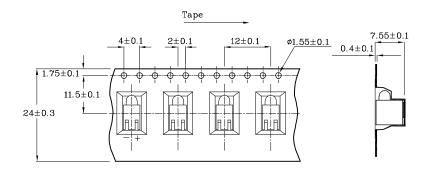
# ❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



# \* Reel Dimension (Units:mm)



# \* Tape Specification (Units:mm)

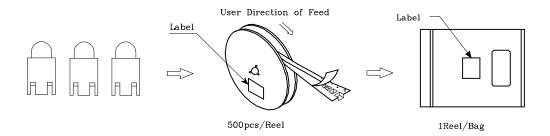


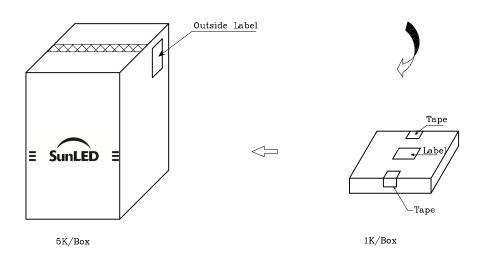
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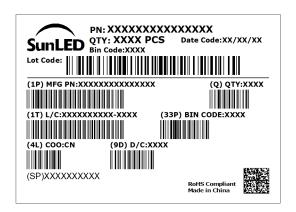
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## PACKING & LABEL SPECIFICATIONS







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