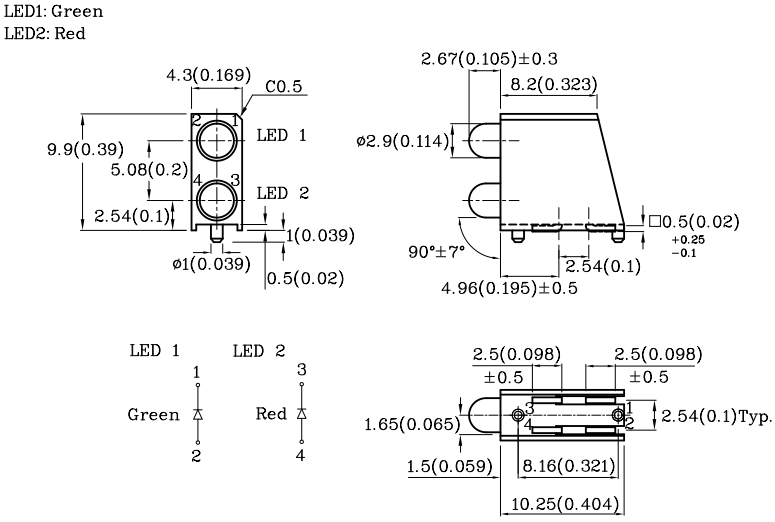
Part Number: XRS2LUGUR11D

3 mm Two Position SMD CBI Housing

Features

- Black casing provides superior contrast
- Reliable & robust
- Custom color combinations available
- MSL (Moisture Sensitivity Level): 3
- Housing material: PPA
- Housing UL rating: 94V-0
- High temperature resistant housing
- High glass transition temperature epoxy
- Halogen-free
- RoHS compliant

Package Schematics



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

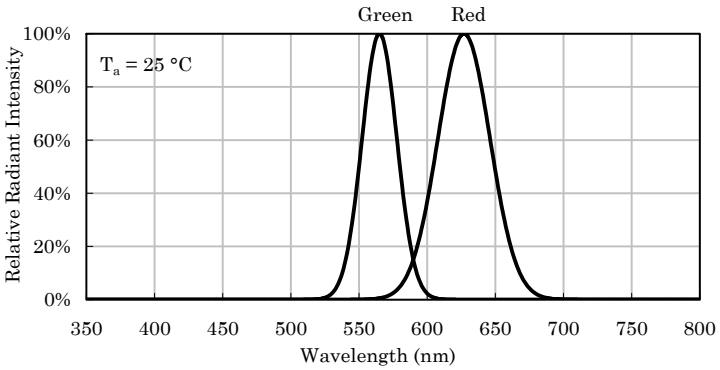
Absolute Maximum Ratings (Ta=25°C)		Green (GaP)	Red (GaAsP/ GaP)	Unit
Reverse Voltage	V_R	5	5	V
Forward Current	I_F	25	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	I_{FP}	140	160	mA
Power Dissipation	P_D	62.5	75	mW
Operating Temperature	Ta	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +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)

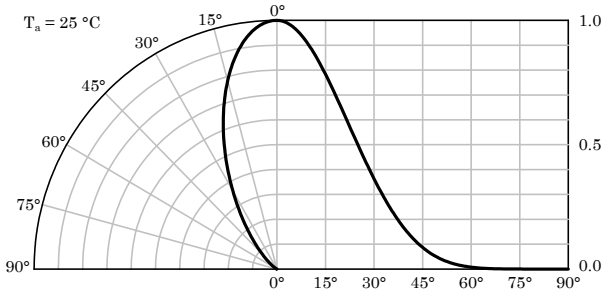
Operating Characteristics (Ta=25°C)		Green (GaP)	Red (GaAsP/ GaP)	Unit
Forward Voltage (Typ.) (I_F=10mA)	V_F	2.0	1.9	V
Forward Voltage (Max.) (I_F=10mA)	V_F	2.4	2.3	V
Reverse Current (Max.) (V_R=5V)	I_R	10	10	µA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I_F=10mA)	λP	565*	627*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I_F=10mA)	λD	568*	617*	nm
Spectral Line Full Width at Half-Maximum (Typ.) (I_F=10mA)	Δλ	30	45	nm

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I_F=10mA) mcd min.	Luminous Intensity CIE127-2007* (I_F=10mA) mcd typ.	Wavelength CIE127-2007* nm λP	Viewing Angle 2θ 1/2
XRS2LUGUR11D	Green	GaP	Green Diffused	10 10*	24 24*	565*	50°
	Red	GaAsP/GaP	Red Diffused	20 12*	49 29*	627*	50°

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

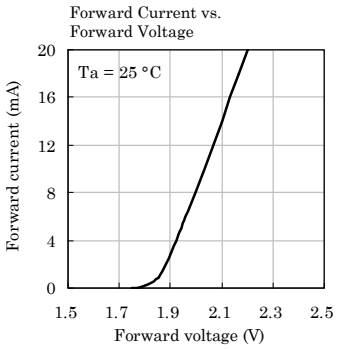


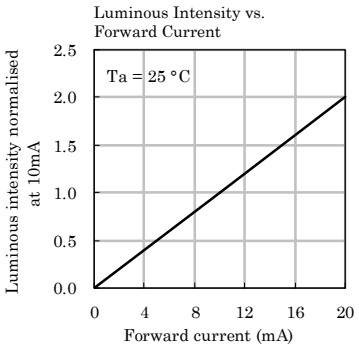
Relative Intensity Vs. CIE Wavelength

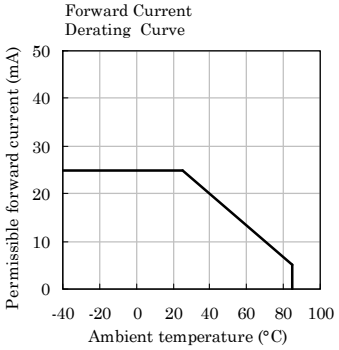


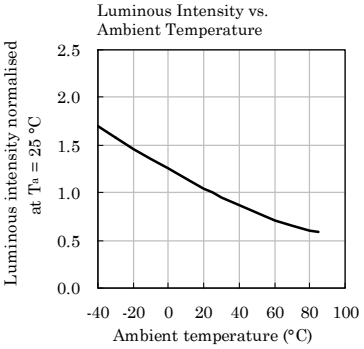
Spatial Distribution

❖ Green

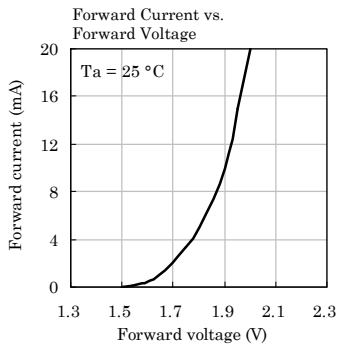


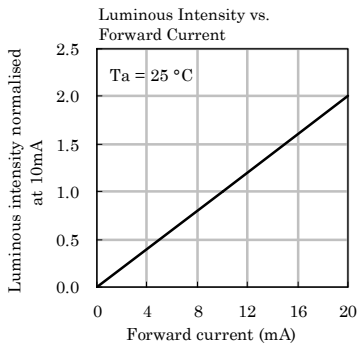


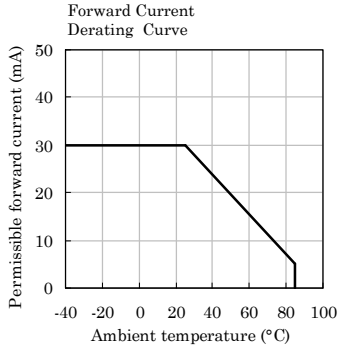


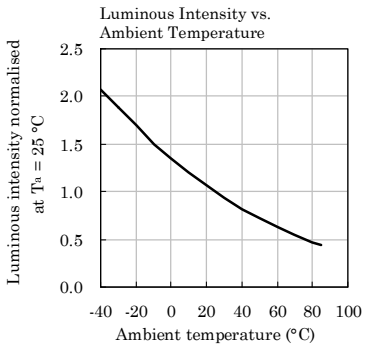


❖ Red

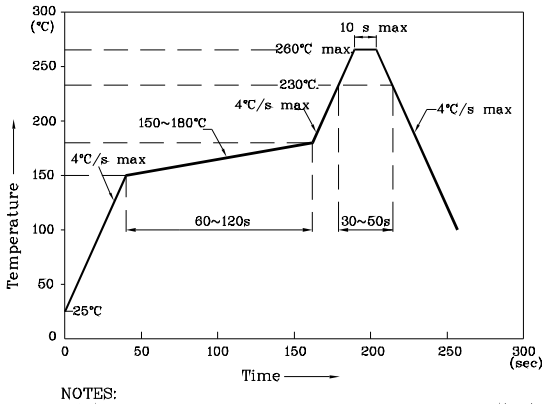








Reflow Soldering Profile for SMD Products (Pb-Free Components)

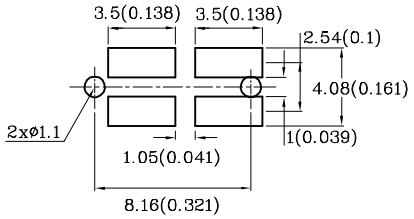


NOTES:
1. We recommend the reflow temperature 245°C(+/-5°C). The maximum soldering temperature should be limited to 260°C.
2. Don't cause stress to the epoxy resin while it is exposed to high temperature.
3. No more than once.

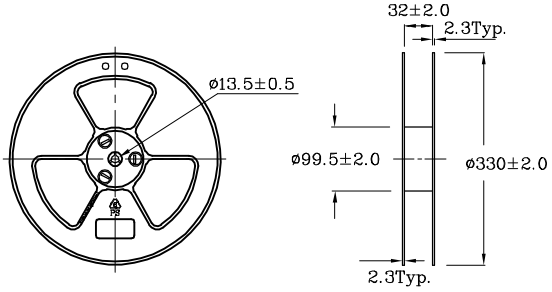
Remarks:

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.

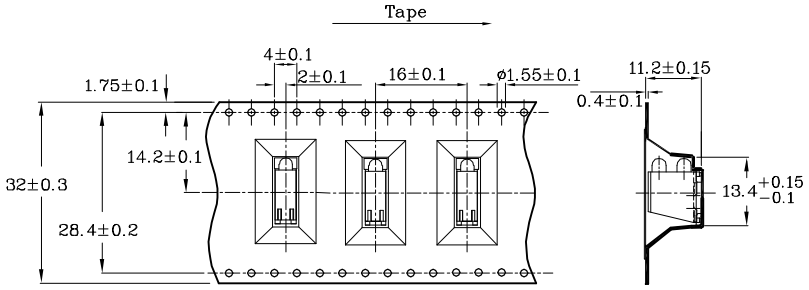
❖ **Recommended Soldering Pattern**
(Units: mm ; Tolerance: ± 0.1)



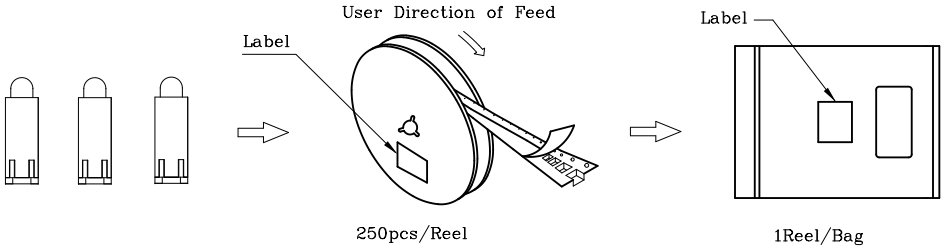
❖ **Reel Dimension (Units : mm)**

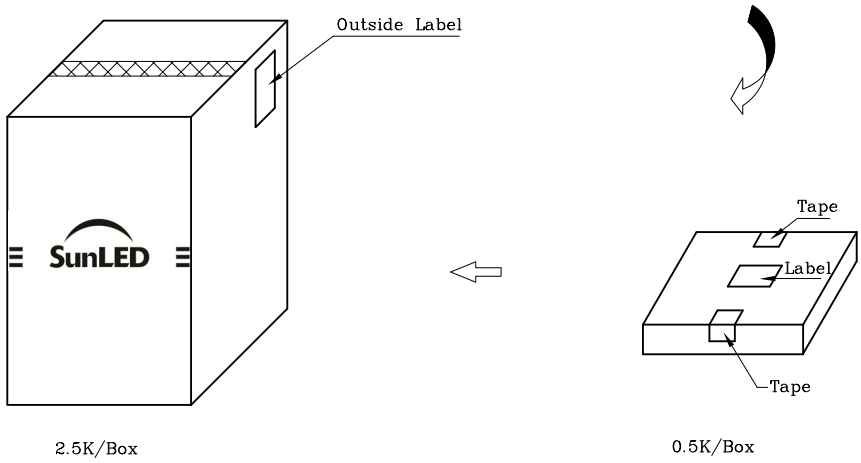


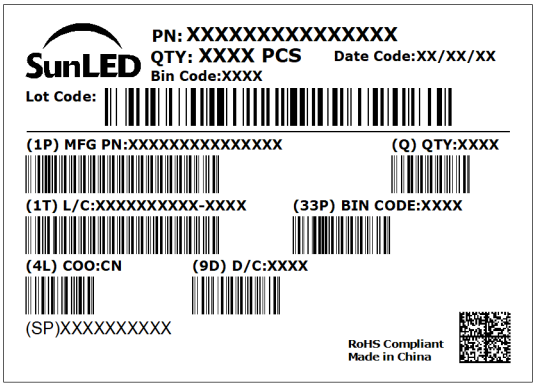
❖ **Tape Specification (Units : mm)**



Packing & Label Specifications







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