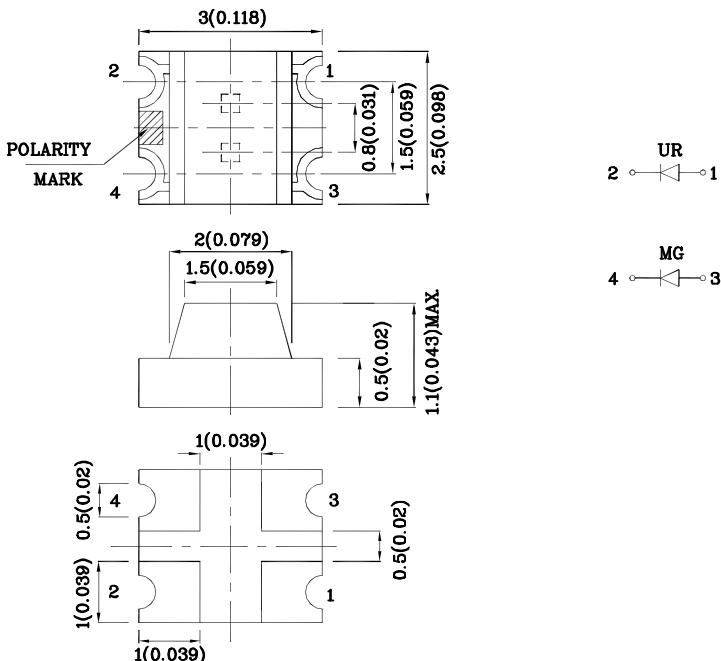


## Features

- 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



## Package Schematics



### Notes:

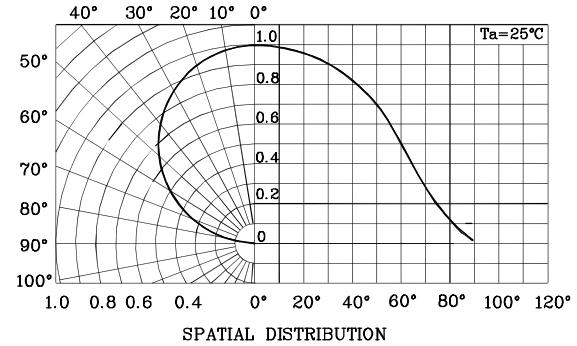
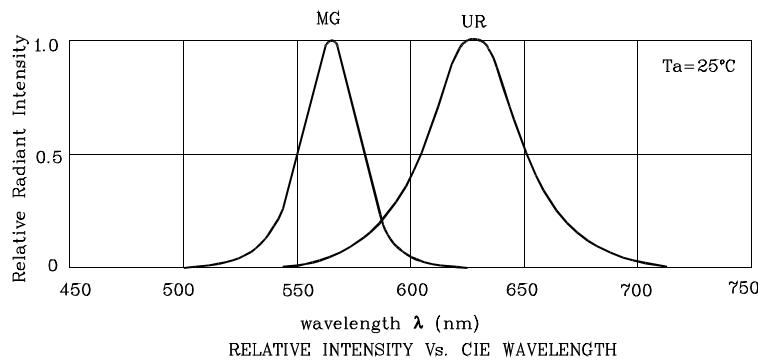
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.2$  (0.008") unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		UR (GaAsP/ GaP)	MG (GaP)	Unit
Reverse Voltage	V <sub>R</sub>	5	5	V
Forward Current	I <sub>F</sub>	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i <sub>FS</sub>	160	140	mA
Power Dissipation	P <sub>D</sub>	75	62.5	mW
Operating Temperature	T <sub>A</sub>	-40 ~ +85		°C
Storage Temperature	T <sub>STG</sub>	-40 ~ +85		

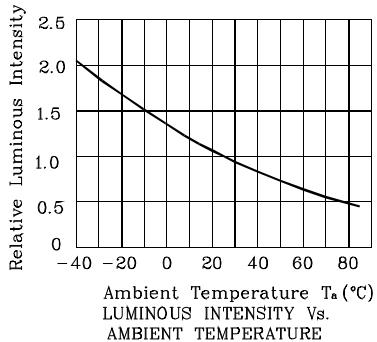
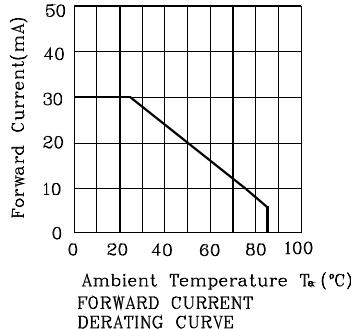
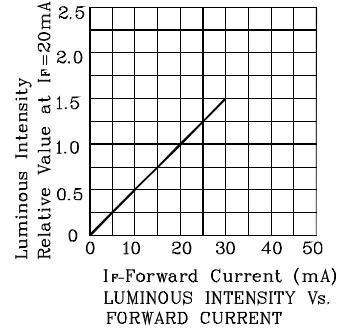
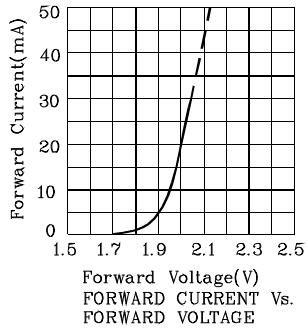
Operating Characteristics (TA=25°C)		UR (GaAsP/ GaP)	MG (GaP)	Unit
Forward Voltage (Typ.) (IF=20mA)	V <sub>F</sub>	2	2.2	V
Forward Voltage (Max.) (IF=20mA)	V <sub>F</sub>	2.5	2.5	V
Reverse Current (Max.) (VR=5V)	I <sub>R</sub>	10	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (IF=20mA)	λP	627*	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (IF=20mA)	λD	617*	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	△λ	45	30	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	15	15	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I <sub>F</sub> =20mA) mcd	Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.	
XZURMG57W	Red	GaAsP/GaP	Water Clear	8 3*	14 7*	627*
	Green	GaP		8 8*	14 14*	565*

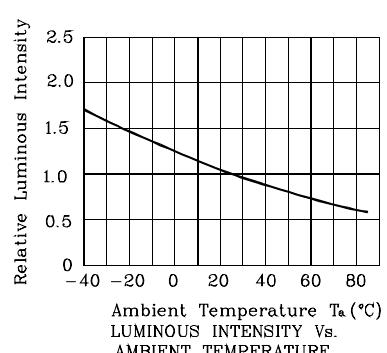
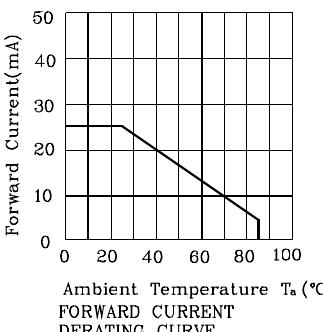
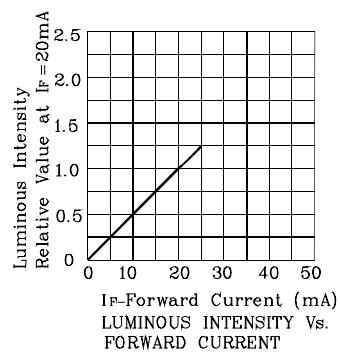
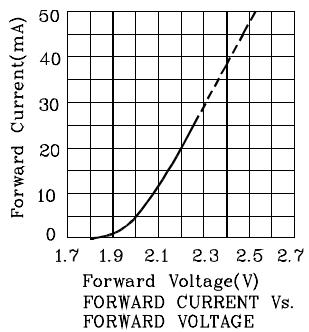
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



### ❖ UR

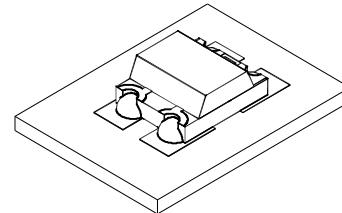
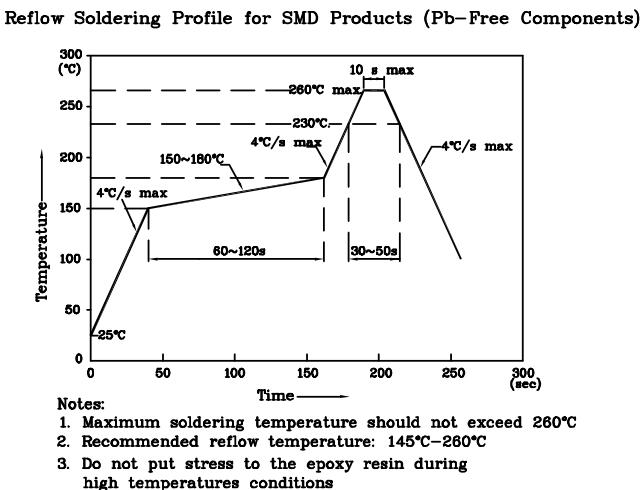


### ❖ MG

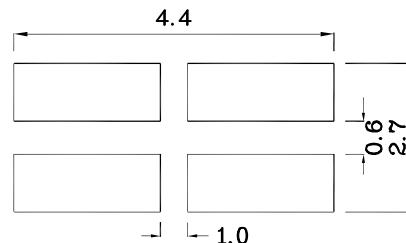


LED is recommended for reflow soldering and soldering profile is shown below.

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

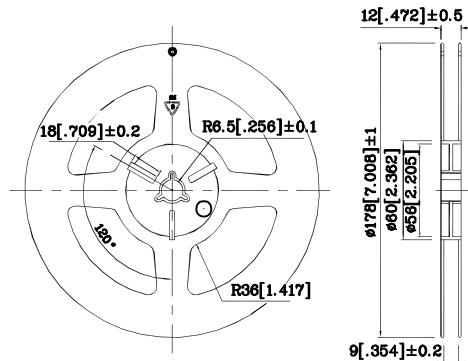
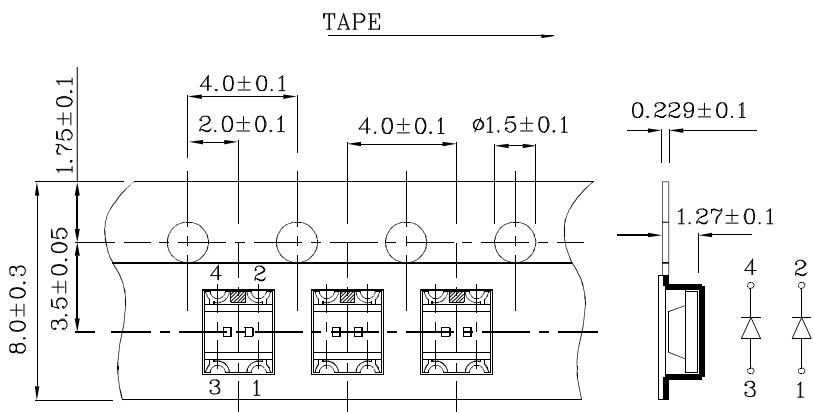


❖ Recommended Soldering Pattern  
(Units : mm; Tolerance:  $\pm 0.1$ )



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

## ❖ Reel Dimension



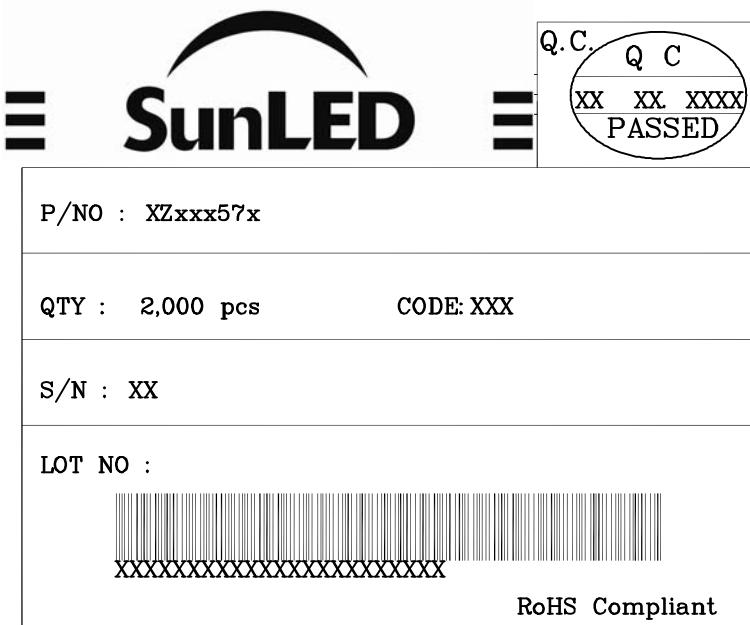
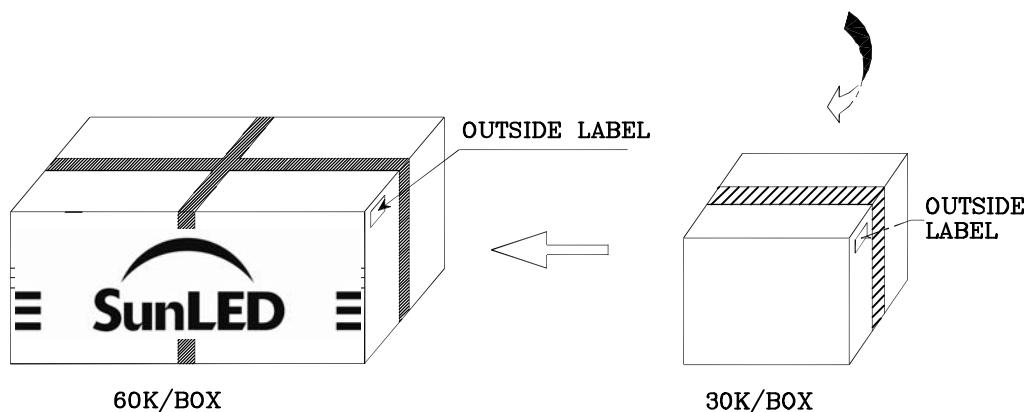
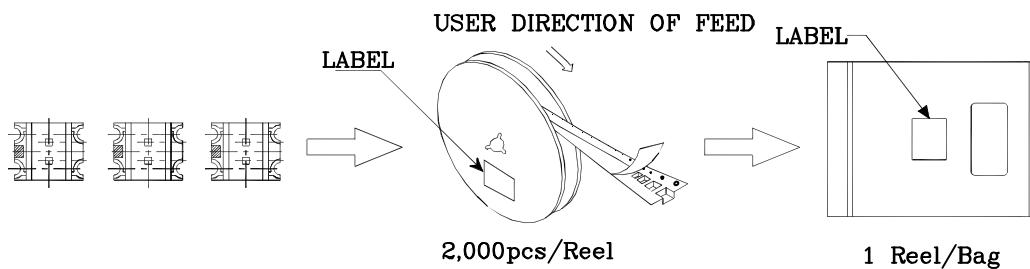
### Remarks:

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

## PACKING & LABEL SPECIFICATIONS



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