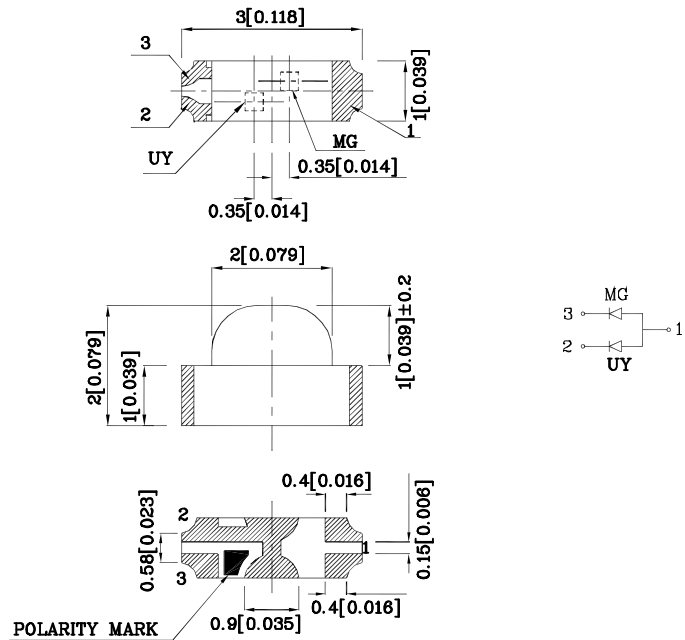


Features

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package : 2000 pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant



Package Schematics



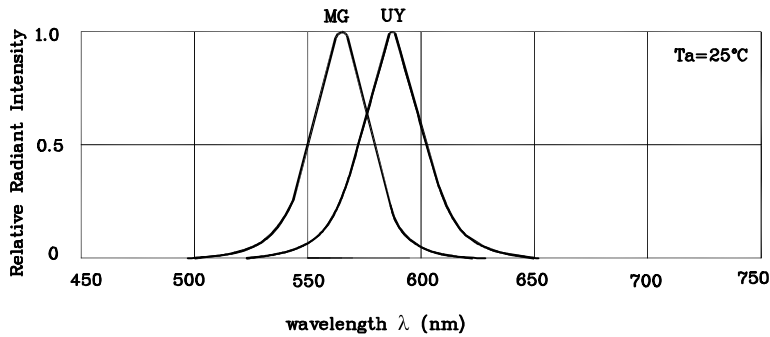
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.15 (0.006") unless otherwise noted.
3. Specifications are subject to change without notice.

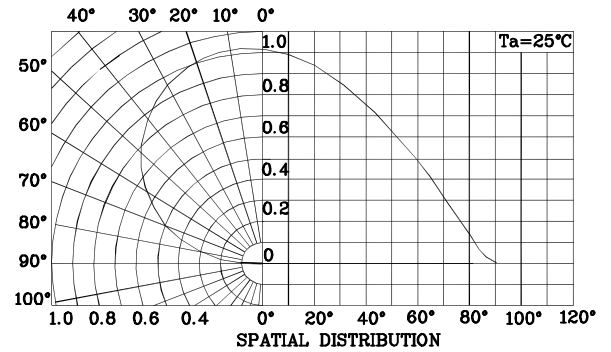
Absolute Maximum Ratings (T _A =25°C)		UY (GaAsP/ GaP)	MG (GaP)	Unit
Reverse Voltage	V _R	5	5	V
Forward Current	I _F	30	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i _{FS}	140	140	mA
Power Dissipation	P _D	75	62.5	mW
Operating Temperature	T _A	-40 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +85		

Operating Characteristics (T _A =25°C)		UY (GaAsP/ GaP)	MG (GaP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	2.1	2.2	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 (Typ.) (I _F =20mA)	λ _P	590	565	nm
Wavelength of Dominant Emission (Typ.) (I _F =20mA)	λ _D	588	568	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	35	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	20	15	pF

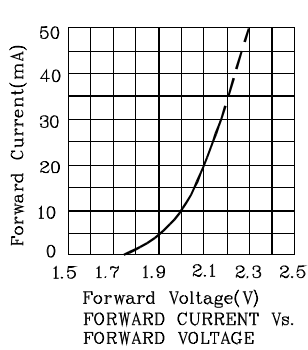
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λ _P	Viewing Angle 2θ 1/2
				min.	typ.		
XZUYMG56W	Yellow	GaAsP/GaP	Water Clear	5	7	590	140°
	Green	GaP		8	14	565	



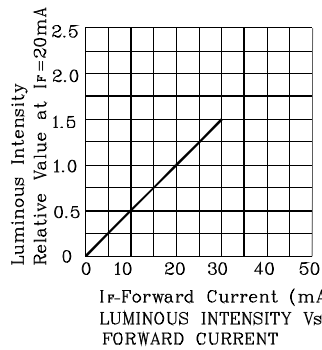
RELATIVE INTENSITY Vs. WAVELENGTH



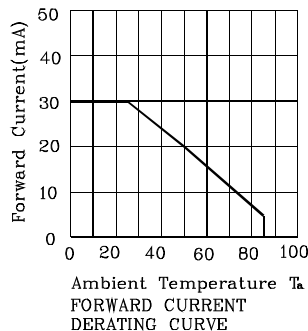
❖ UY



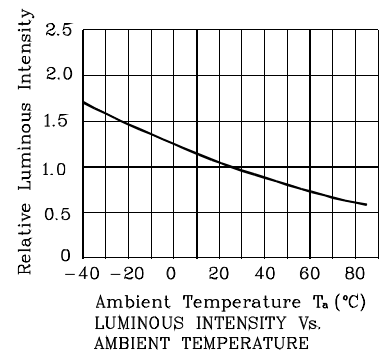
Forward Current (mA)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



I_f -Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT

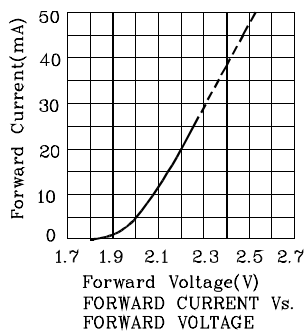


Ambient Temperature T_a ($^\circ\text{C}$)
FORWARD CURRENT
DERATING CURVE

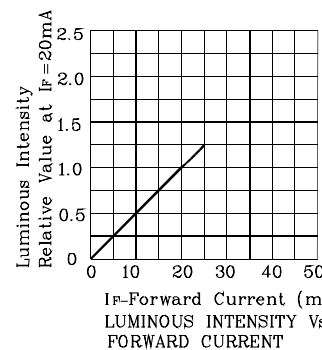


Ambient Temperature T_a ($^\circ\text{C}$)
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

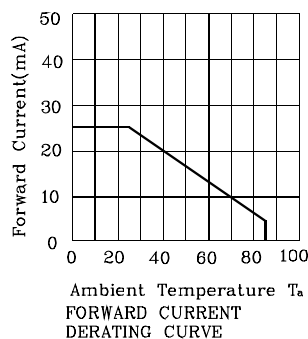
❖ MG



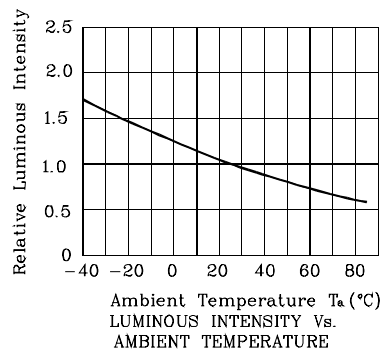
Forward Current (mA)
FORWARD CURRENT Vs.
FORWARD VOLTAGE



I_f -Forward Current (mA)
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



Ambient Temperature T_a ($^\circ\text{C}$)
FORWARD CURRENT
DERATING CURVE

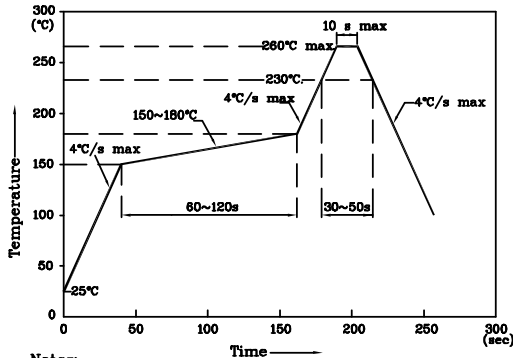


Ambient Temperature T_a ($^\circ\text{C}$)
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

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

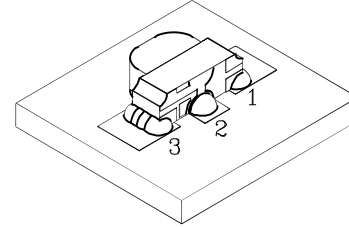
❖ The device has a single mounting surface. The device must be mounted according to the specifications.

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

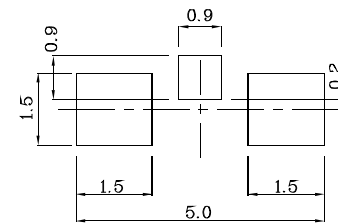


Notes:

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

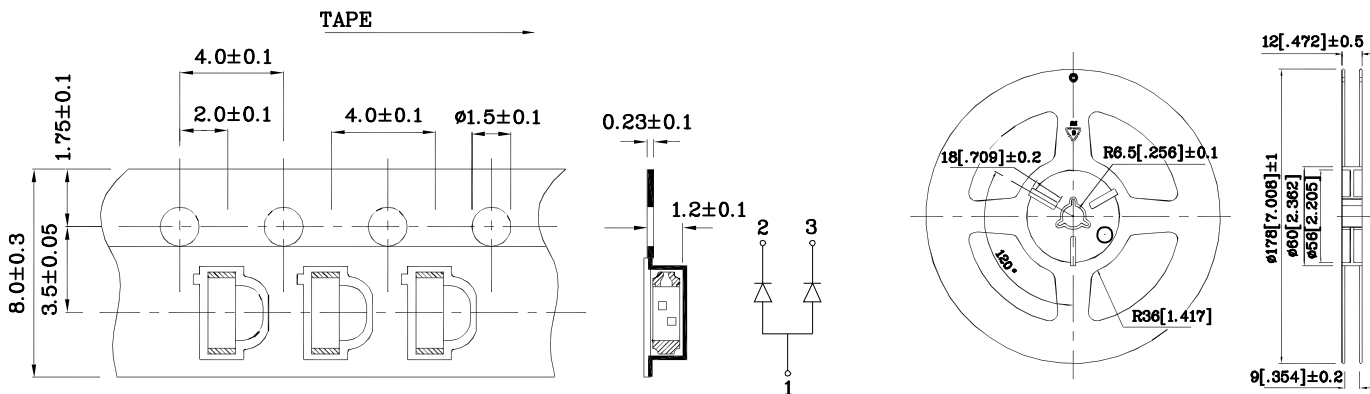


❖ Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



❖ Tape Specification (Units : mm)

❖ Reel Dimension



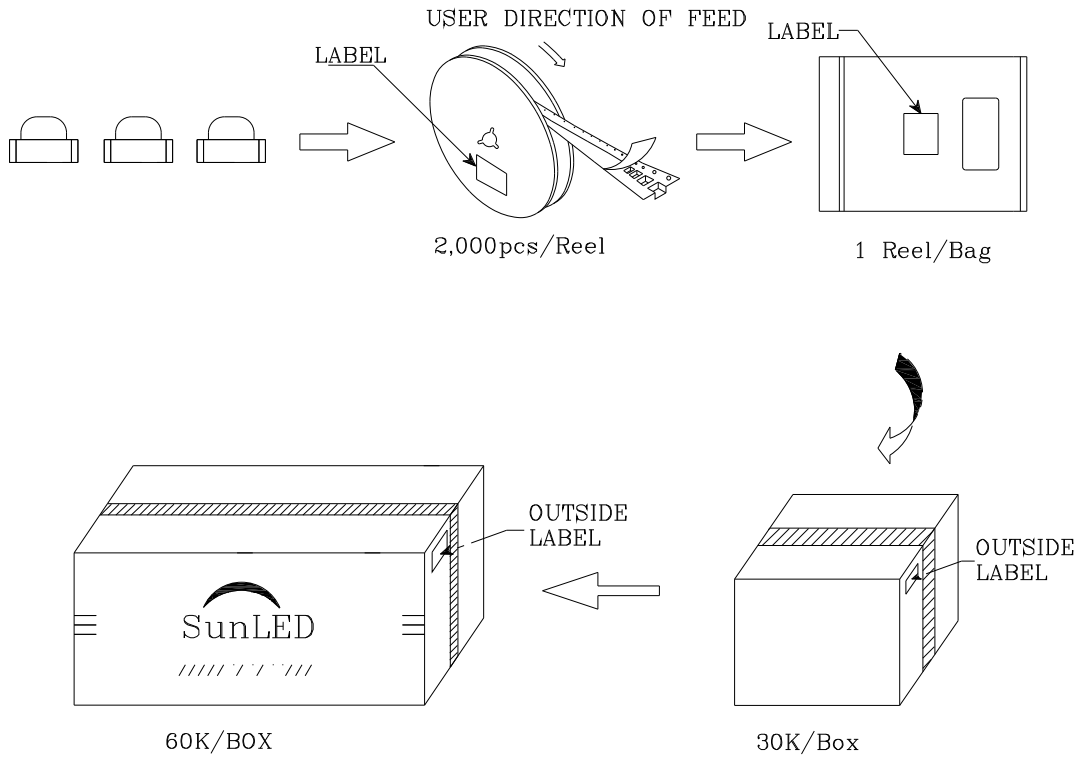
Remarks:

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.

PACKING & LABEL SPECIFICATIONS





Q.C. Q C
 XX XX XXXX
 PASSED

P/NO : XZxxx56x	
QTY : 2,000 pcs	CODE: XXX
S/N : XX	
LOT NO :  XXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	