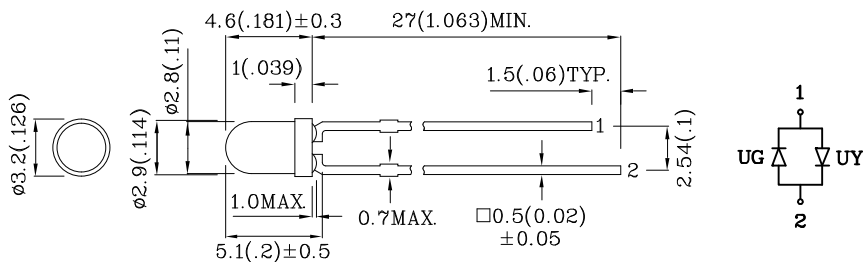


Features

- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.



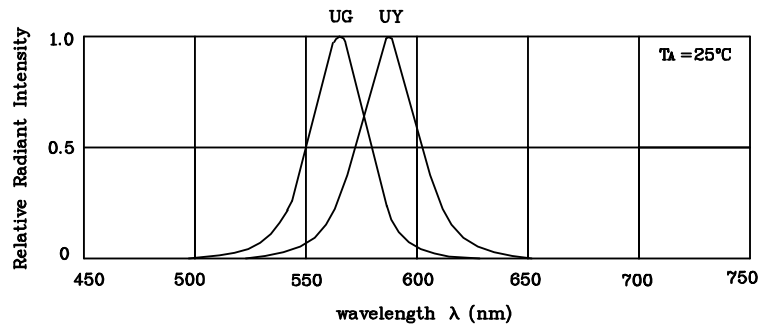
Notes:

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 (TA=25°C)		UG (GaP)	UY (GaAsP/ GaP)	Unit
Forward Current	IF	25	30	mA
Forward Current (Peak) 1/10Duty Cycle 0.1ms Pulse Width	iFS	140	140	mA
Power Dissipation	PT	62.5	75	mW
Operating Temperature	TA	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds			
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds			

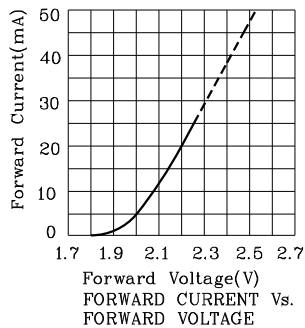
Operating Characteristics (TA=25°C)		UG (GaP)	UY (GaAsP/ GaP)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	2.2	2.1	V
Forward Voltage (Max.) (IF=20mA)	VF	2.5	2.5	V
Wavelength Of Peak Emission (Typ.) (IF=20mA)	λP	565	590	nm
Wavelength Of Dominant Emission (Typ.) (IF=20mA)	λD	568	588	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	$\Delta\lambda$	30	35	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	15	20	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm λP	Viewing Angle 2 θ 1/2
				min.	typ.		
LUGY37M	Green	GaP	White Diffused	7	15	565	60°
	Yellow	GaAsP/GaP		1.6	6	590	

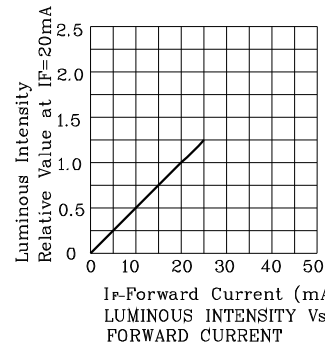


RELATIVE INTENSITY Vs. WAVELENGTH

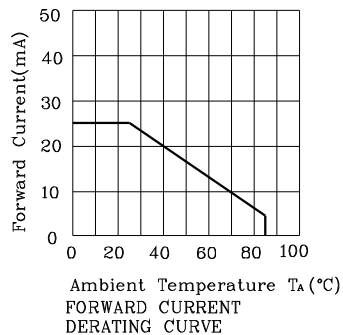
❖ UG



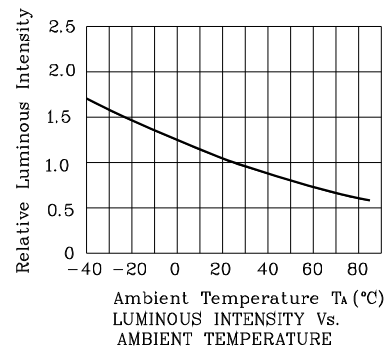
FORWARD CURRENT Vs. FORWARD VOLTAGE



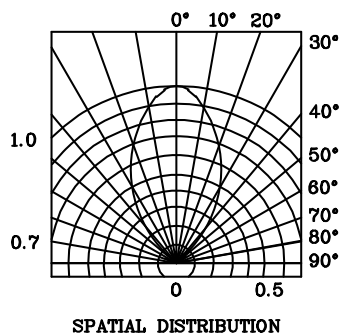
LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DERATING CURVE

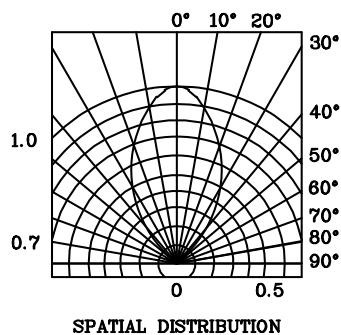
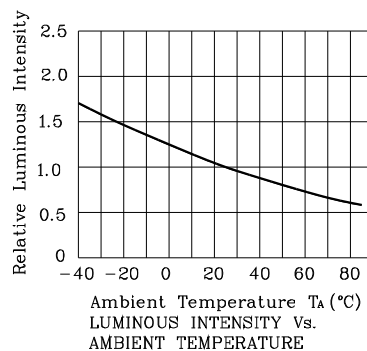
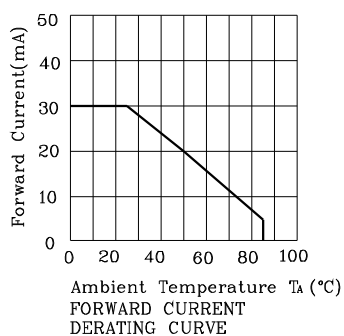
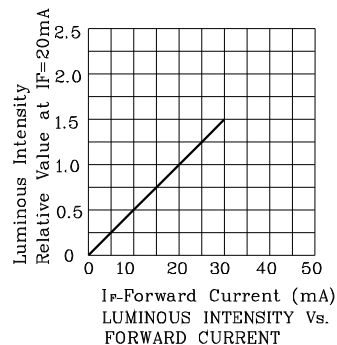
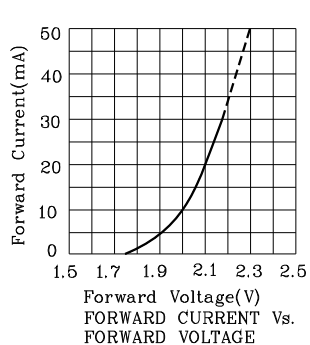


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

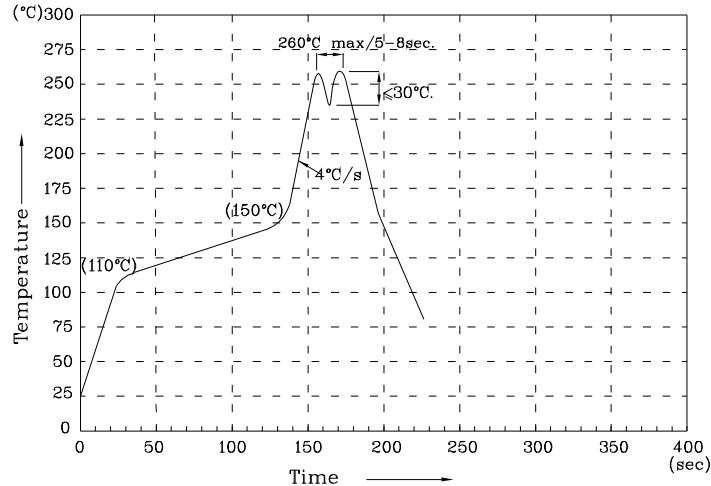


SPATIAL DISTRIBUTION

❖ UY



Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

1. Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
2. Do not apply stress on epoxy resins when temperature is over 85 degree°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. 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:

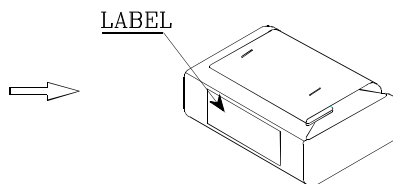
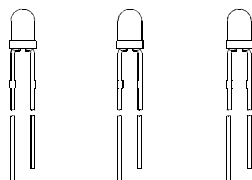
1. Wavelength: +/-1nm
2. Luminous Intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

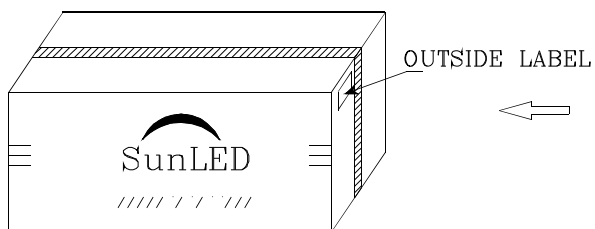


PACKING & LABEL SPECIFICATIONS

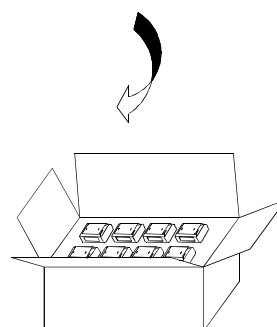
LUGY37M



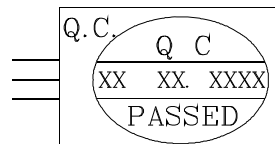
500PCS/BAG



40K/BOX



20K/BOX



P/N0 : Lxxx37x

QTY : 500 pcs

CODE: XXX

S/N : XX

LOT NO:



RoHS Compliant