

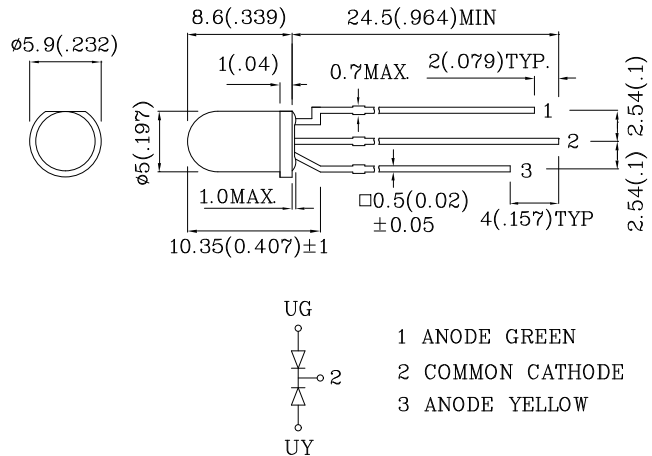
Features

- UNIFORM LIGHT OUTPUT.
- LOW POWER CONSUMPTION.
- 3 LEADS WITH ONE COMMON LEAD.
- I.C. COMPATIBLE.
- LONG LIFE - SOLID STATE RELIABILITY.
- RoHS COMPLIANT.



Notes:

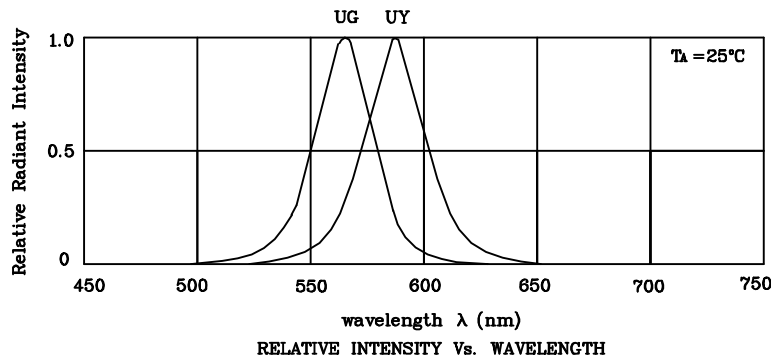
1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Specifications are subject to change without notice.



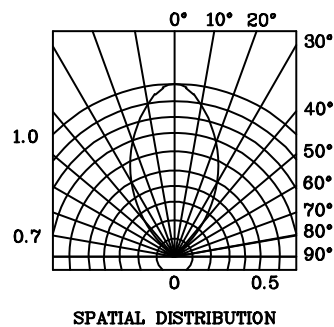
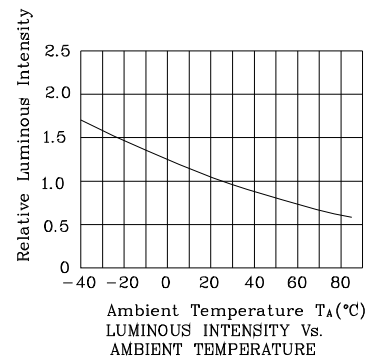
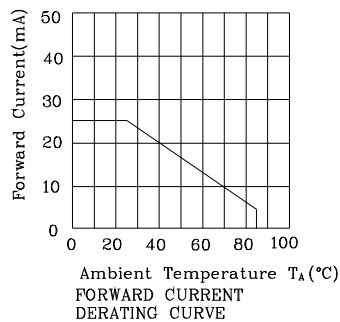
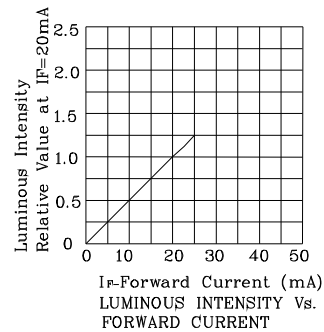
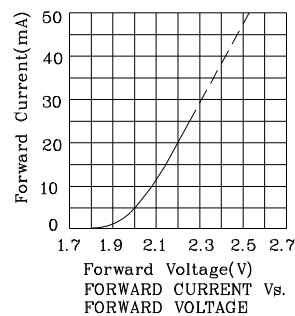
Absolute Maximum Ratings (TA=25°C)		UG (GaP)	UY (GaAsP /GaP)	Unit
Reverse Voltage	VR	5	5	V
Forward Current	IF	25	30	mA
Forward Current (Peak) 1/10Duty Cycle 0.1ms Pulse Width	iFS	140	140	mA
Power Dissipation	PT	62.5	75	mW
Operating Temperature	TA	-40 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +85		
Lead 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 (T _A =25°C)		UG (GaP)	UY (GaAsP/ GaP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	2.2	2.1	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	565	590	nm
Wavelength Of Dominant Emission (Typ.) (I _F =20mA)	λ D	568	588	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	30	35	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	15	20	pF

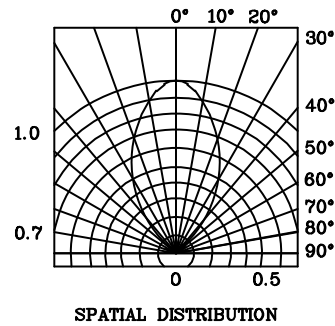
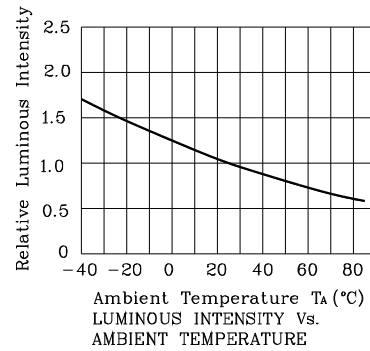
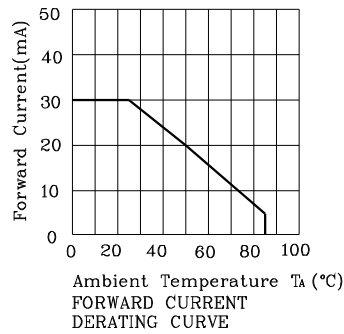
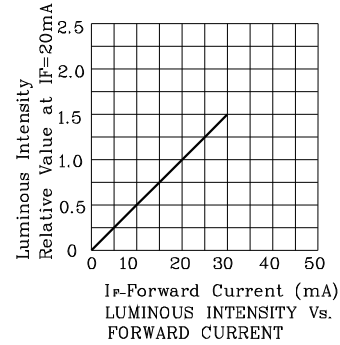
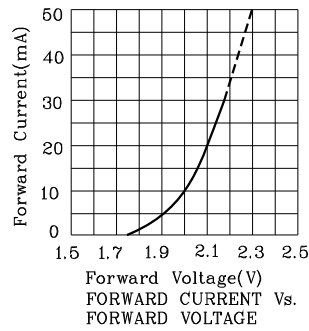
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd	Wavelength nm λ P	Viewing Angle 2 θ 1/2	
				min.	typ.		
LUGY59M	Green	GaP	White Diffused	18	49	565	60°
	Yellow	GaAsP/GaP		18	39		
Published Date : MAR 18,2008		Drawing No :SDSA3163		V3	Checked : Shin Chi		P.1/5



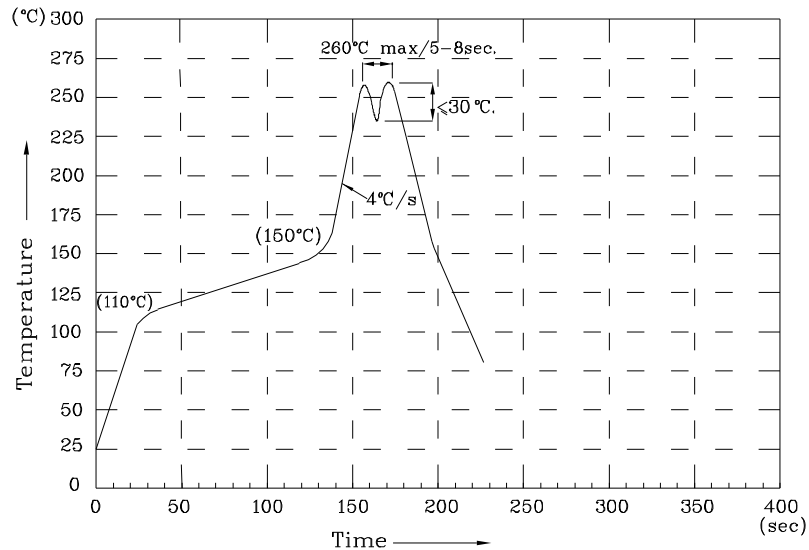
❖ UG



❖ 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:

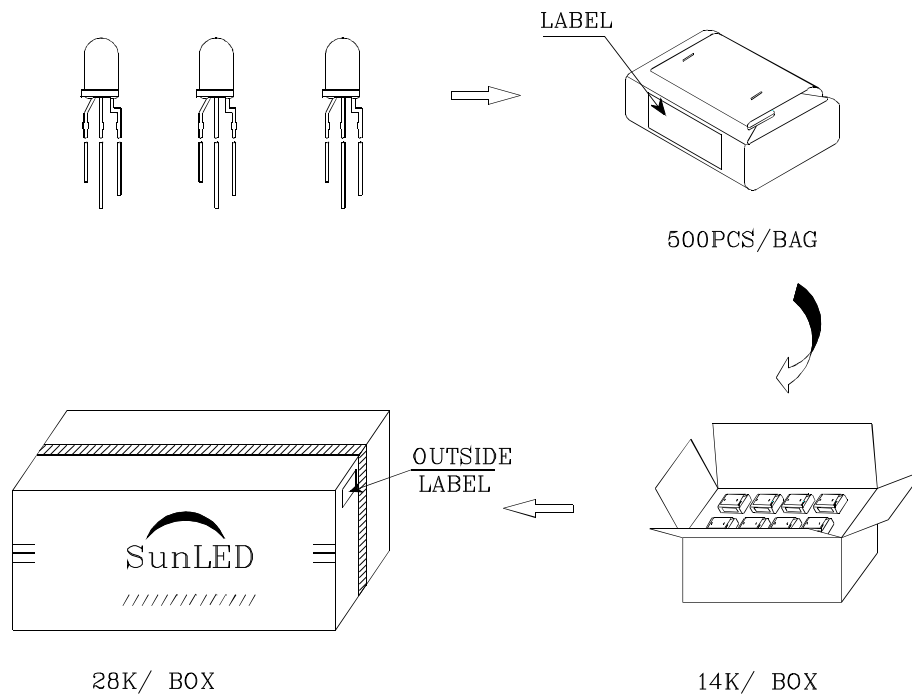
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

LUGY59M



Q.C. Q.C.

XX XX XXXX

PASSED

P/NO : Lxxx59x	
QTY : 500 pcs	CODE: XXX
S/N : XX	
LOT NO:	
XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	