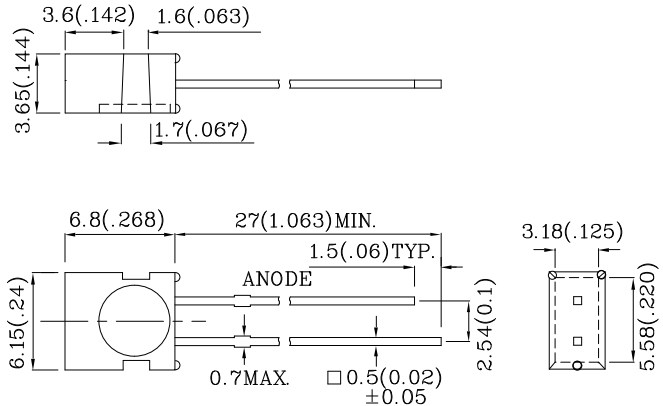## Features

- FLAT RECTANGULAR LIGHT EMITTING SURFACE.
- SINGLE COLOR.
- IDEAL AS FLUSH MOUNTED PANEL INDICATORS.
- EXCELLENT ON/OFF CONTRAST.
- LONG LIFE - SOLID STATE RELIABILITY.
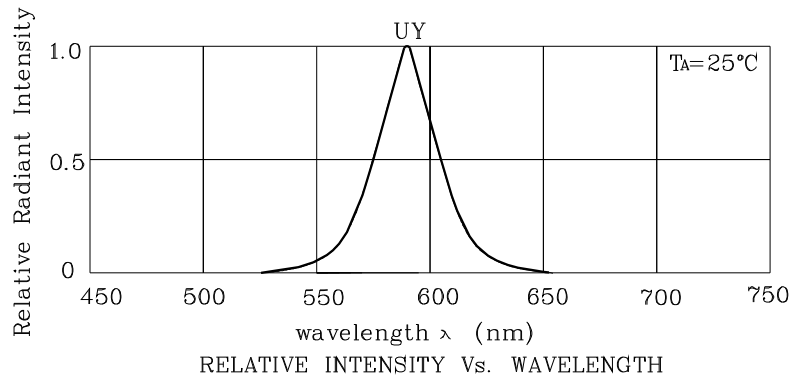- THIS SERIES ARE TIN-DIPPED.
- RoHS COMPLIANT.

Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is ± 0.25(0.01") unless otherwise noted.
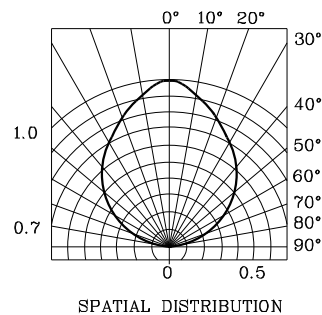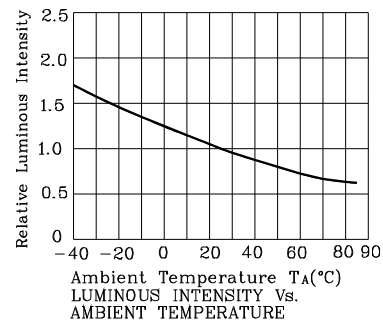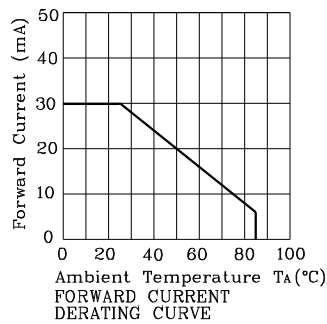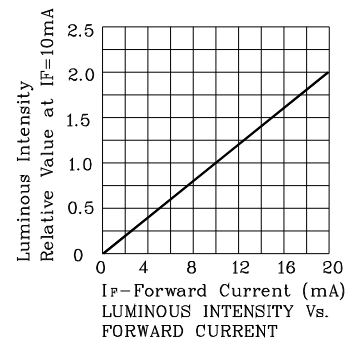
3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T$_A$=25°C)		UY (GaAsP/GaP)	Unit
Reverse Voltage	V$_R$	5	V
Forward Current	I$_F$	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i$_{FS}$	140	mA
Power Dissipation	P$_T$	75	mW
Operating Temperature	T$_A$	-40 ~ +85	°C
Storage Temperature	T$_{stg}$	-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)		UY (GaAsP/GaP)	Unit
Forward Voltage (Typ.) (I$_F$=10mA)	V$_F$	1.95	V
Forward Voltage (Max.) (I$_F$=10mA)	V$_F$	2.5	V
Reverse Current (Max.) (V$_R$=5V)	I$_R$	10	uA
Wavelength of Peak Emission (Typ.) (I$_F$=10mA)	λ P	590	nm
Wavelength of Dominant Emission (Typ.) (I$_F$=10mA)	λ D	588	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I$_F$=10mA)	Δλ	35	nm
Capacitance (Typ.) (V$_F$=0V, f=1MHz)	C	20	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=10mA) mcd min.	Luminous Intensity (IF=10mA) mcd typ.	Wavelength nm λ P	Viewing Angle 2 θ 1/2
EUY21D	Yellow	GaAsP/GaP	Yellow Diffused	1	3.8	590	100°

RELATIVE INTENSITY Vs. WAVELENGTH

❖ **UY**

FORWARD CURRENT Vs.
FORWARD VOLTAGE

LUMINOUS INTENSITY Vs.
FORWARD CURRENT

FORWARD CURRENT
DERATING CURVE

LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

SPATIAL DISTRIBUTION

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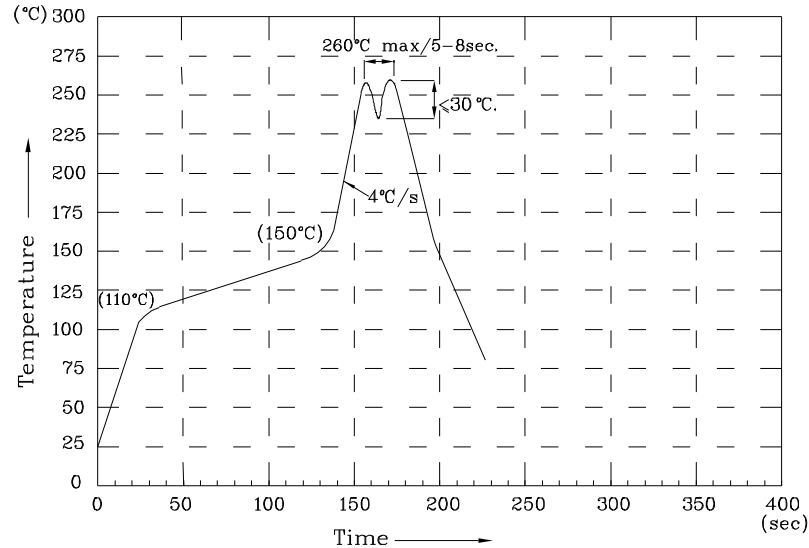
NOTES:

1. Recommend the wave temperature 245℃~260℃. The maximum soldering temperature should be less than 260℃.
2. Do not apply stress on epoxy resins when temperature is over 85 degree℃.
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%
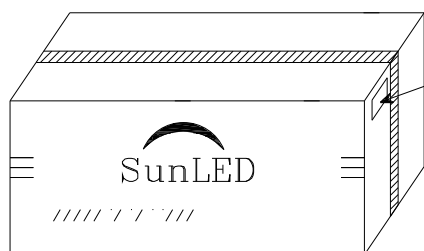
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.
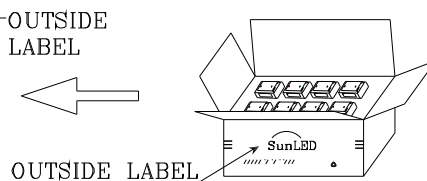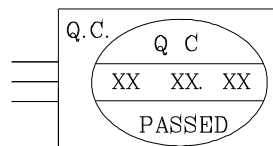
PACKING & LABEL SPECIFICATIONS   EUY21D

LABEL

500 PCS / Bag

OUTSIDE
LABEL

OUTSIDE LABEL

14K / BOX

28K / BOX

Q.C.

Q C

XX XX. XX

PASSED
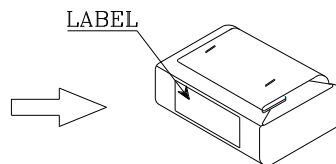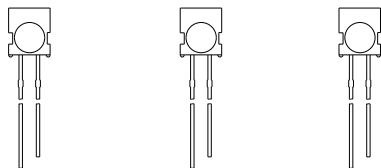
P/NO : Exx21x

QTY : 500 pcs   CODE: XXX

S/N : XX

LOT NO:

XXXXXXXXXXXXXXXXXXXXXX

RoHS Compliant