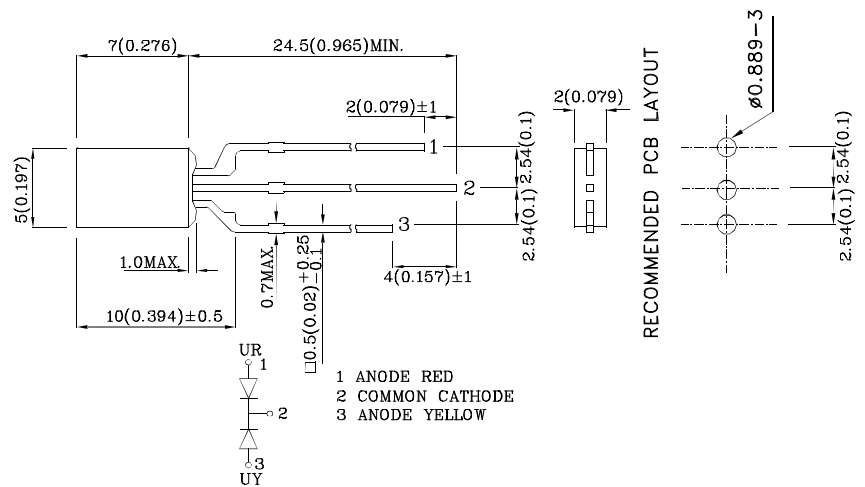


### Features

- Radial / Through hole package
- Reliable & robust
- Low power consumption
- Available on tape and reel
- RoHS Compliant



### Package Schematics



#### Notes:

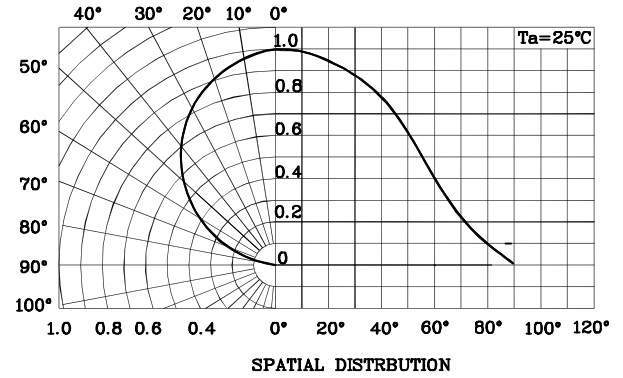
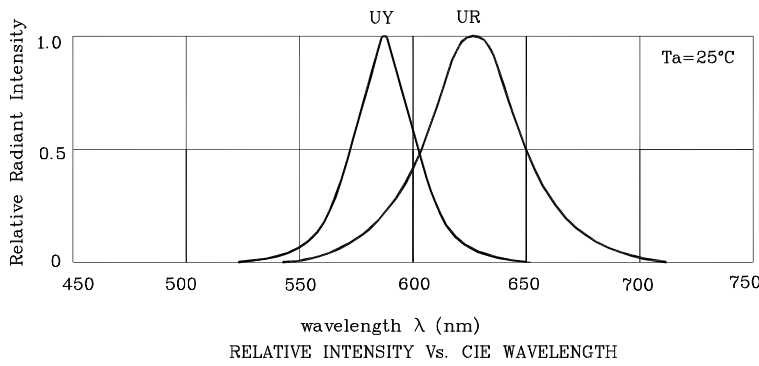
1. All dimensions are in millimeters (inches).
2. Tolerance is  $\pm 0.25(0.01)$  unless otherwise noted.
3. Specifications are subject to change without notice.

Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ )		UR (GaAsP/ GaP)	UY (GaAsP/ GaP)	Unit
Reverse Voltage	$V_R$	5	5	V
Forward Current	$I_F$	30	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{FS}$	160	140	mA
Power Dissipation	$P_D$	75	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			

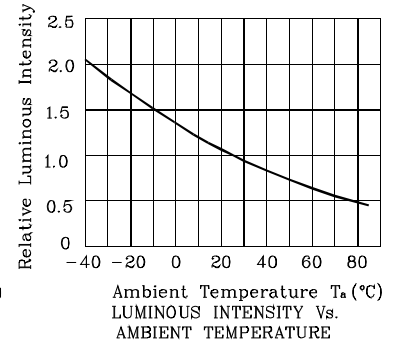
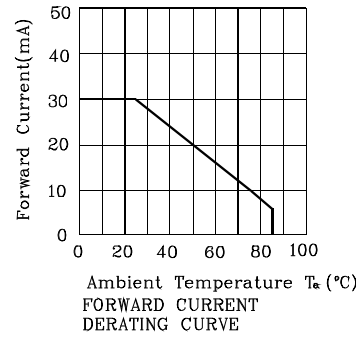
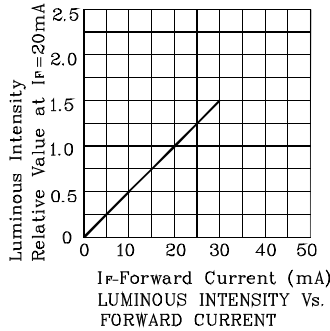
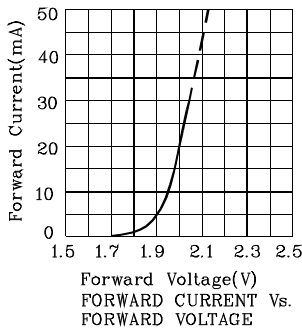
Operating Characteristics ( $T_A=25^\circ\text{C}$ )		UR (GaAsP/ GaP)	UY (GaAsP/ GaP)	Unit
Forward Voltage (Typ.) ( $I_F=20\text{mA}$ )	$V_F$	2	2.1	V
Forward Voltage (Max.) ( $I_F=20\text{mA}$ )	$V_F$	2.5	2.5	V
Reverse Current (Max.) ( $V_R=5\text{V}$ )	$I_R$	10	10	$\mu\text{A}$
Wavelength of Peak Emission CIE127-2007* (Typ.) ( $I_F=20\text{mA}$ )	$\lambda_P$	627*	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) ( $I_F=20\text{mA}$ )	$\lambda_D$	617*	588*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ( $I_F=20\text{mA}$ )	$\Delta\lambda$	45	35	nm
Capacitance (Typ.) ( $V_F=0\text{V}$ , $f=1\text{MHz}$ )	C	15	20	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* ( $I_F=20\text{mA}$ ) mcd		Wavelength CIE127-2007* nm $\lambda_P$	Viewing Angle 20 1/2
				min.	typ.		
XSUYR47M	Red	GaAsP/GaP	White Diffused	8	19	627*	110°
	Yellow	GaAsP/GaP		4	6		
				4*	6*	590*	

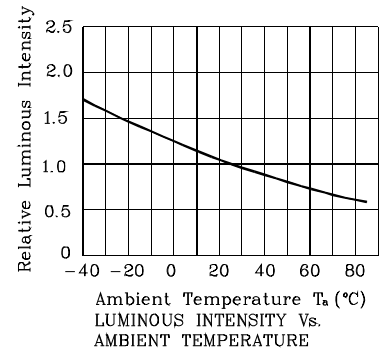
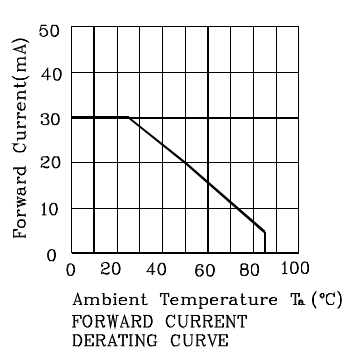
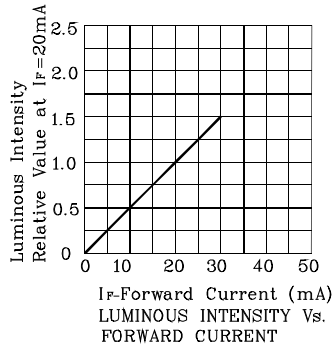
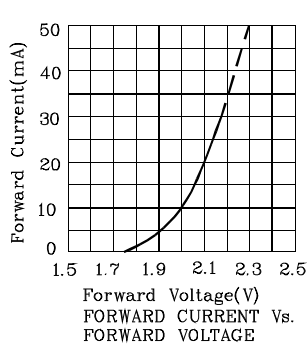
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



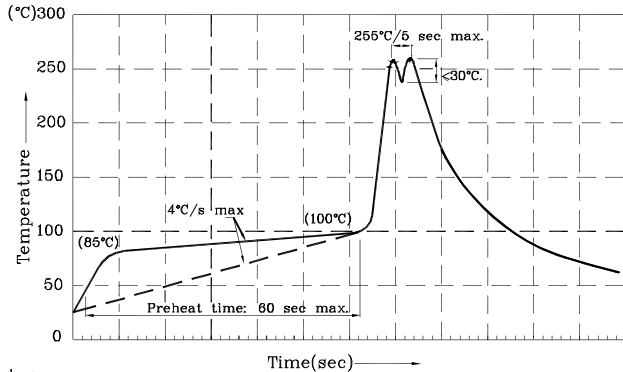
❖ UR



❖ UY



Wave Soldering Profile For Thru-Hole Products (Pb-Free Components)



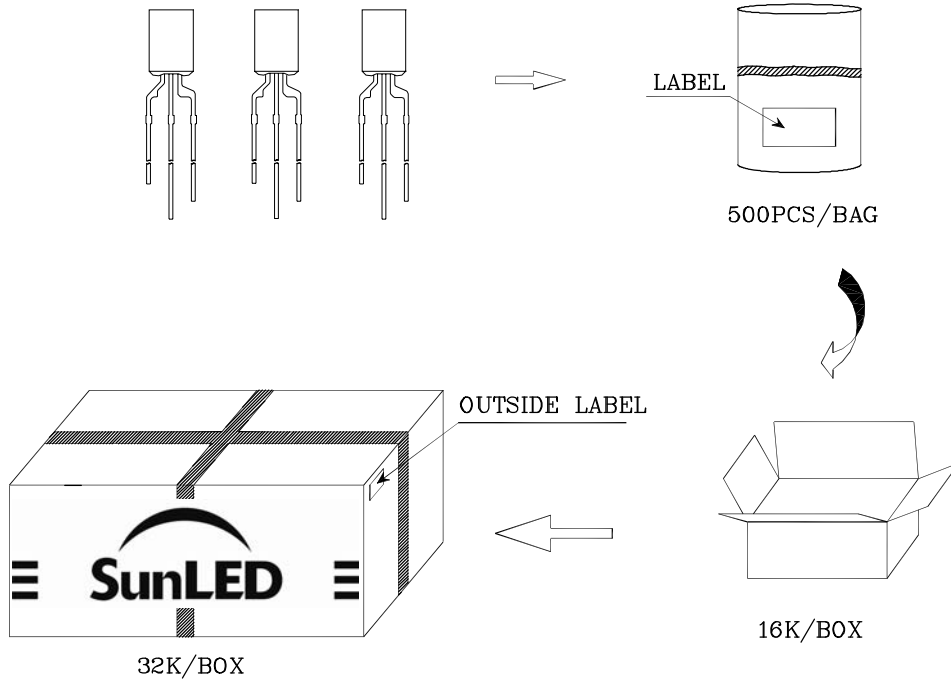
- Notes:
- 1.Recommend pre-heat temperature of 105 $^\circ\text{C}$  or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260 $^\circ\text{C}$
  - 2.Peak wave soldering temperature between 245 $^\circ\text{C}$  ~ 255 $^\circ\text{C}$  for 3 sec (5 sec max).
  - 3.Do not apply stress to the epoxy resin while the temperature is above 85 $^\circ\text{C}$ .
  - 4.Fixtures should not incur stress on the component when mounting and during soldering process.
  - 5.SAC 305 solder alloy is recommended.
  - 6.No more than one wave soldering pass.


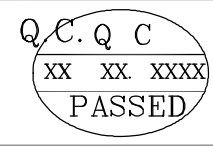

Remarks:

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



		
P/NO : XSxxx47x		
QTY : 500 pcs	CODE: XXX	
S/N : XX		
LOT NO:		
 xxxxxxxxxxxxxxxxxxxxxxxx		
RoHS Compliant		

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2. Contents within this document are subject to improvement and enhancement changes without notice.
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