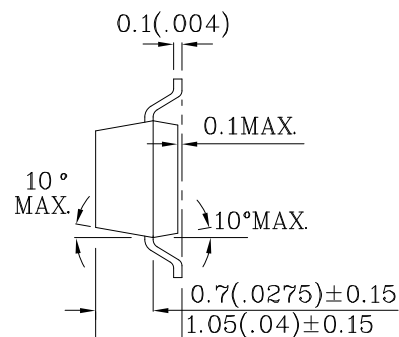
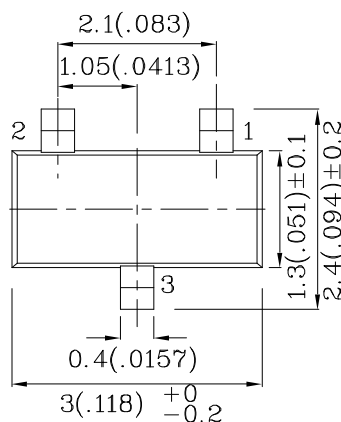


- SOT-23 PACKAGE SURFACE MOUNT LED LAMP.
- LOW POWER CONSUMPTION.
- LONG LIFE - SOLID STATE RELIABILITY.
- PACKAGE: 2000PCS / REEL.
- MOISTURE SENSITIVITY LEVEL : LEVEL 3.
- RoHS COMPLIANT.



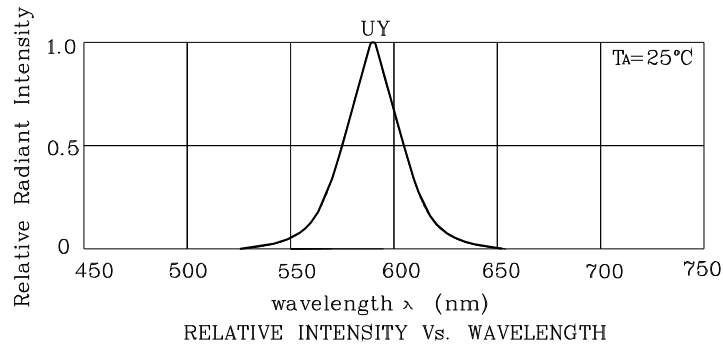
3 CATHODE

3.Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		UY (GaAsP/GaP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	140	mA
Power Dissipation	PT	75	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

Operating Characteristics (T _A =25°C)		UY (GaAsP/GaP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	2.1	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength Of Peak Emission (Typ.) (I _F =20mA)	λ P	590	nm
Wavelength Of Dominant Emission (Typ.) (I _F =20mA)	λ D	588	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	35	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	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.	
ZUY48WA	Yellow	GaAsP/GaP	Water Clear	1.6	4.8	590
Published Date : FEB 28,2008		Drawing No : SDSA3789		V4	Checked : B.L.LIU	P.1/4



❖ UY

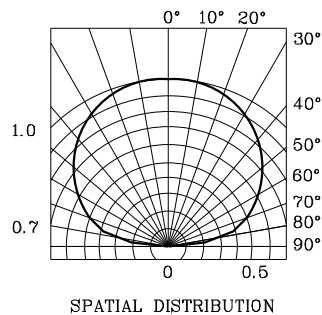
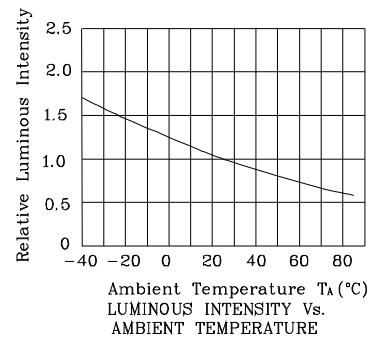
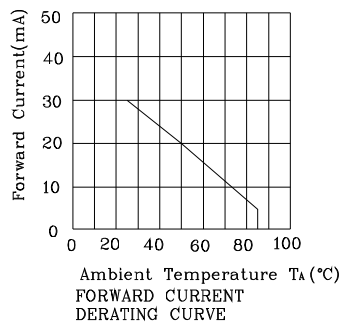
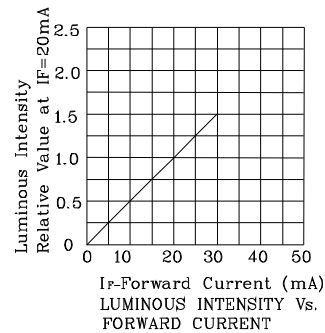
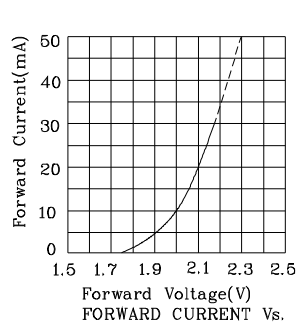
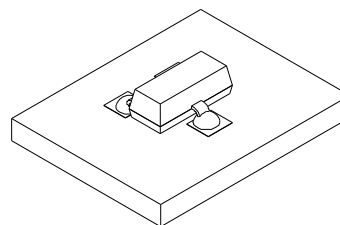
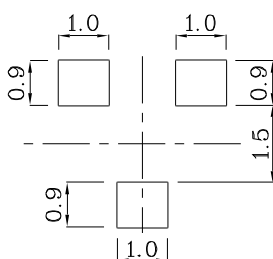


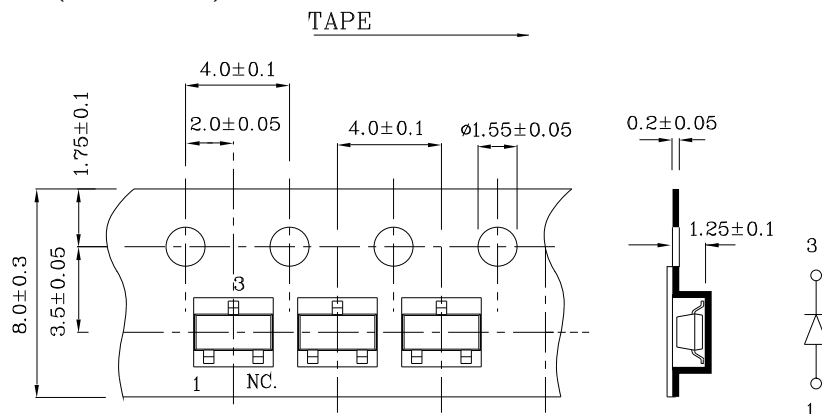
Figure 1 is a line graph showing the temperature profile of a specimen during heat treatment. The vertical axis represents Temperature in degrees Celsius (°C), ranging from 0 to 300. The horizontal axis represents Time in seconds (sec), ranging from 0 to 300. The profile starts at 25°C at time 0. It rises linearly at a rate of 4°C/s to 150°C at approximately 40 seconds. From 150°C, it continues to rise linearly at 4°C/s to 180°C, which occurs between 60 and 120 seconds. From 180°C, it rises linearly at 4°C/s to 260°C, with a maximum dwell time of 10 seconds. Finally, it cools linearly at 4°C/s to 100°C at 250 seconds. Key temperature points and rates are labeled: 25°C, 4°C/s max, 150~180°C, 4°C/s max, 260°C max., 230°C, 10s max, and 4°C/s max.

- 1.Maximum soldering temperature should not exceed 260°C.
- 2.Recommened reflow temperature: 145°C–260°C.
- 3.Do not put stress to the epoxy resin during high temperatures conditions.

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



❖ Tape Specification (Units : mm)



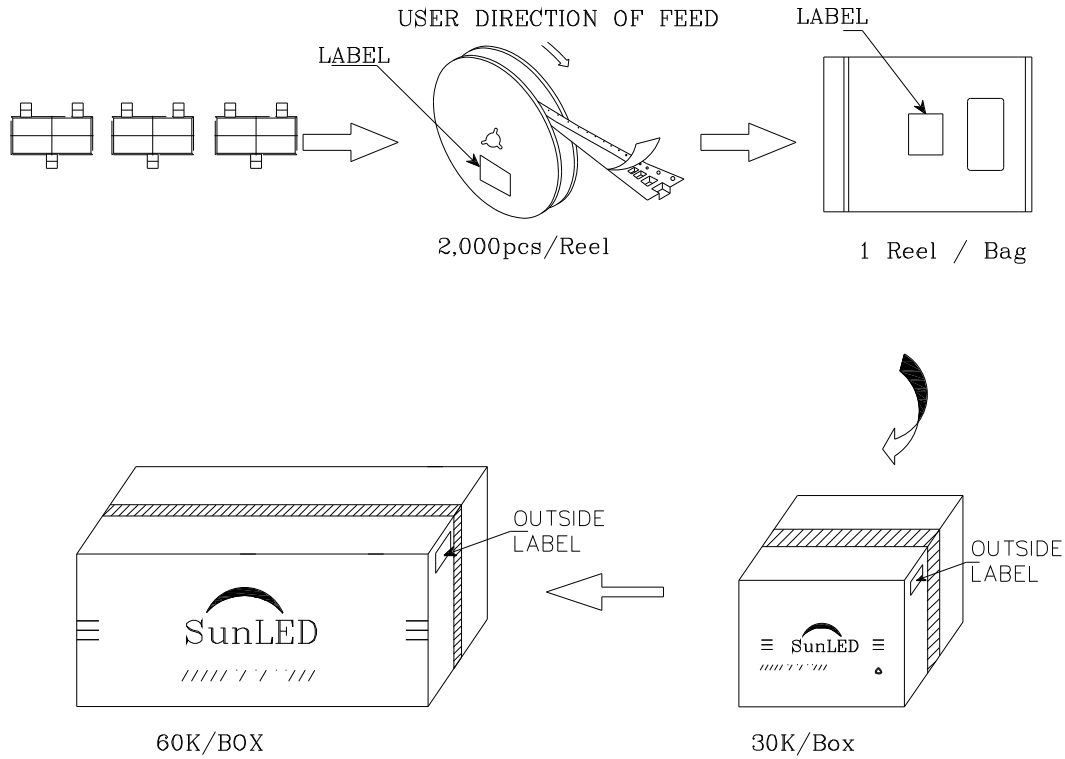
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity / luminous flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

ZUY48WA



		Q.C. Q C XX XX XXXX PASSED
P/NO : Zxxx48x		
QTY : 2,000 pcs	CODE: XXX	
S/N : XX		
LOT NO :		
 XXXXXXXXXXXXXXXXXXXXXXXX		
RoHS Compliant		