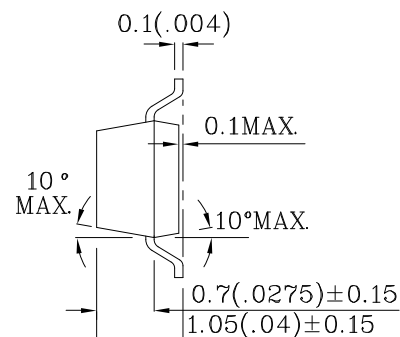
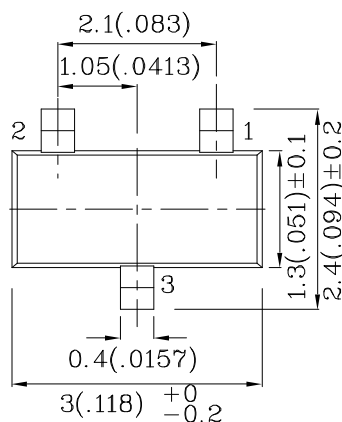


Features

- 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.



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.

1 ANODE

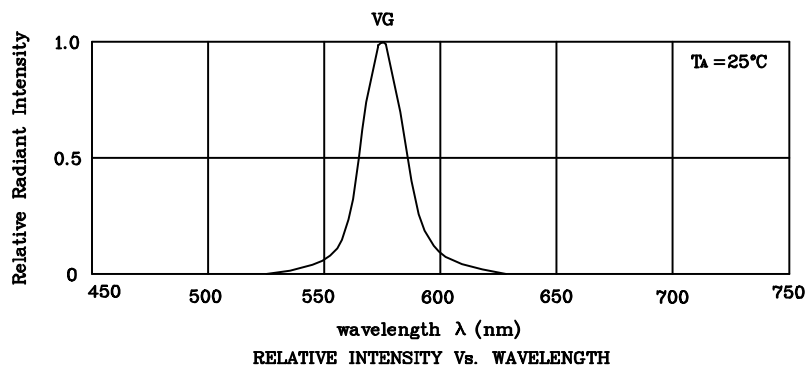
2 N.C.

3 CATHODE

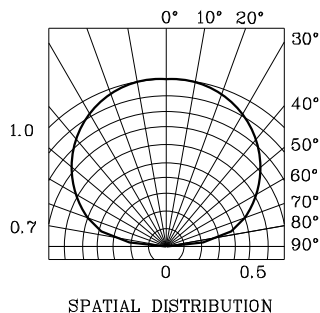
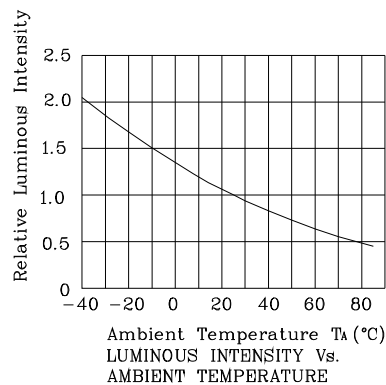
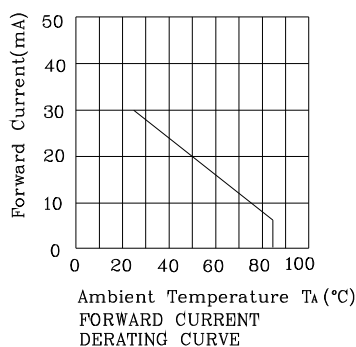
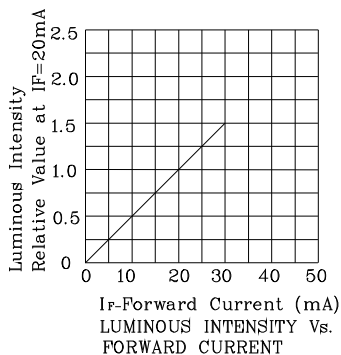
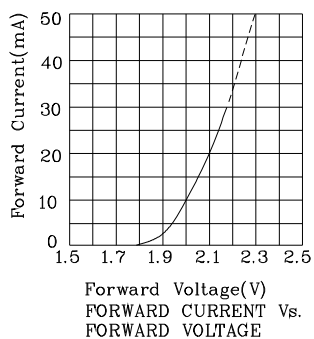
Absolute Maximum Ratings (TA=25°C)		VG (InGaAlP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	150	mA
Power Dissipation	PT	75	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

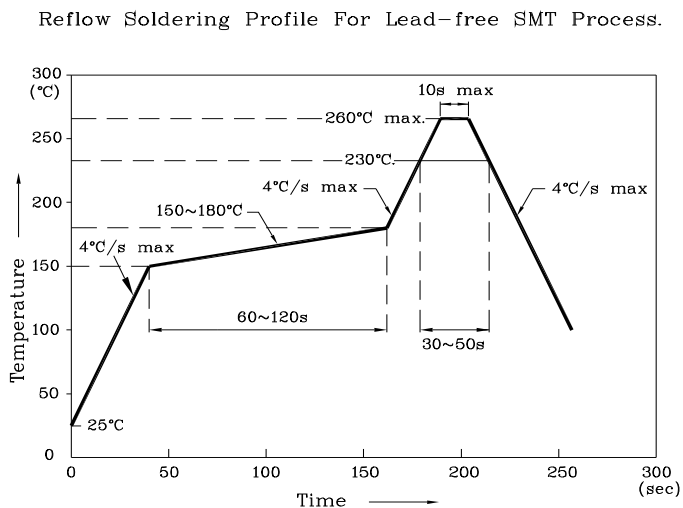
Operating Characteristics (T _A =25°C)		VG (InGaAlP)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V _F	2.1	V
Forward Voltage (Max.) (I _F =20mA)	V _F	2.5	V
Reverse Current (Max.) (V _R =5V)	I _R	10	uA
Wavelength Of Peak Emission (Typ.) (I _F =20mA)	λ P	574	nm
Wavelength Of Dominant Emission (Typ.) (I _F =20mA)	λ D	570	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	Δλ	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	15	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.		
ZVG48WA	Green	InGaAlP	Water Clear	18	39	574	140°
Published Date : FEB 28,2008		Drawing No : SDSA4591		V2	Checked : B.L.LIU		P.1/4



❖ **VG**

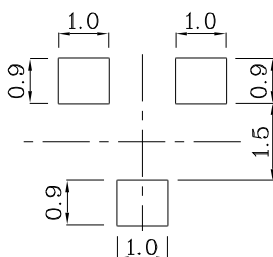




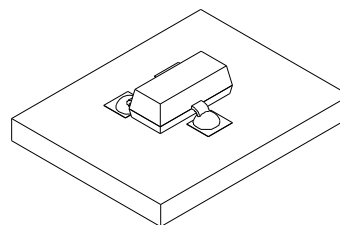
Notes:

- 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.

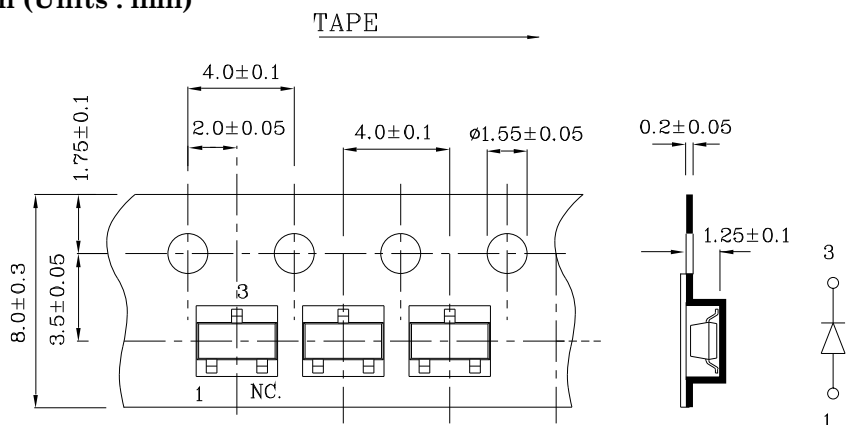
**❖ Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)**



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



❖ Tape Specification (Units : mm)



Remarks:

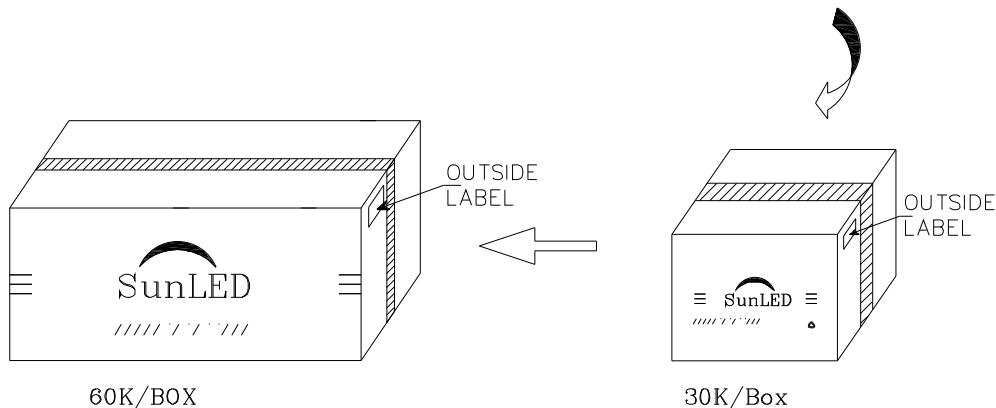
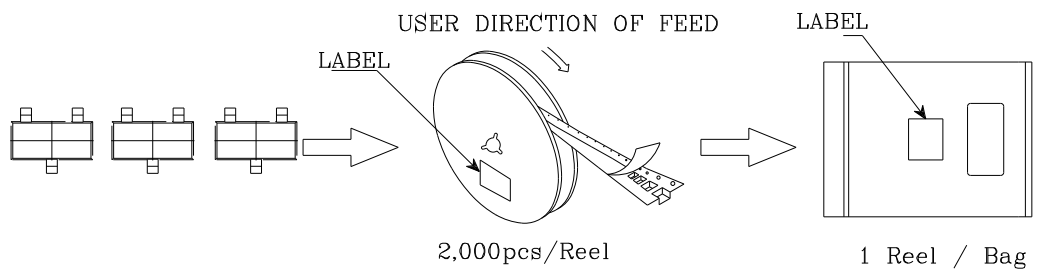
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
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

ZVG48WA



Q.C. Q C

XX XX XXXX

PASSED

P/NO : Zxxx48x	
QTY : 2,000 pcs	CODE: XXX
S/N : XX	
LOT NO :	
XXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	