

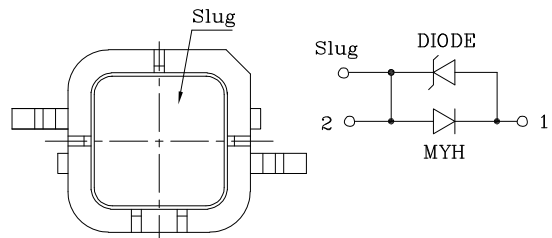
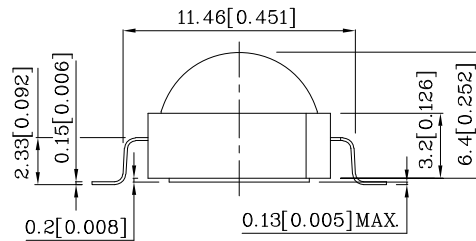
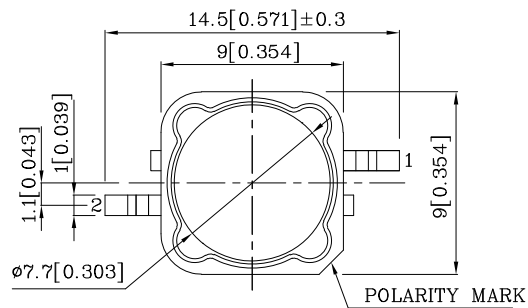
PRELIMINARY SPEC

**Features**

- SUPER HIGH FLUX OUTPUT AND HIGH LUMINANCE.
- DESIGNED FOR HIGH CURRENT OPERATION.
- LOW THERMAL RESISTANCE.
- LOW VOLTAGE DC OPERATED.
- SUPERIOR ESD PROTECTION.
- PACKAGE: 500PCS/REEL.
- NOT REFLOW COMPATIBLE.
- THE COMPONENT IS INTERNALLY PROTECTED WITH SILICONE GEL.
- RoHS COMPLIANT.



**Outline Drawings**



**Applications**

- Traffic signaling.
- Backlighting (illuminated advertising , general lighting).
- Interior and exterior automotive lighting.
- Substitution of micro incandescent lamps.
- Portable light source (e.g. bicycle flashlight).
- Signal and symbol luminaire for orientation.
- Marker lights (e.g. steps, exit ways, etc).
- Decorative and entertainment lighting .
- Indoor and outdoor commercial and residential architectural lighting.



**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.

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=350mA) cd		Wavelength nm $\lambda P$	Viewing Angle 2 $\theta$ 1/2 [2]
				min.	typ.		
XZMYH106W	Yellow	InGaAlP	Water Clear	8	11.5	590	100°

### Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>t</sub>	0.9	W
Junction temperature	T <sub>J</sub>	110	°C
Operating Temperature	T <sub>op</sub>	-40 To +100	°C
Storage Temperature	T <sub>stg</sub>	-40 To +100	°C
DC Forward Current [1]	I <sub>F</sub>	350	mA
Peak Forward Current [3]	I <sub>FM</sub>	500	mA
Thermal resistance [1]	R <sub>th j-slug</sub>	12	°C/W
Electrostatic Discharge Threshold (HBM)		8000	V
Iron Soldering [4]		350°C For 3 Seconds	

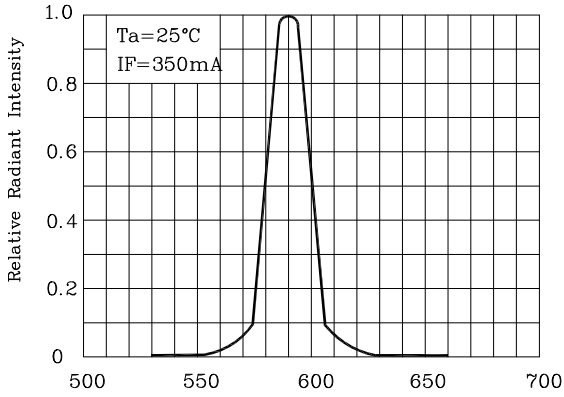
Notes:

1. Metal Core PCB is mounted on the heat Fins.
2.  $\theta$  1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
3. 1/10 Duty Cycle, 0.1ms Pulse Width.
4. 1.29mm below package base.

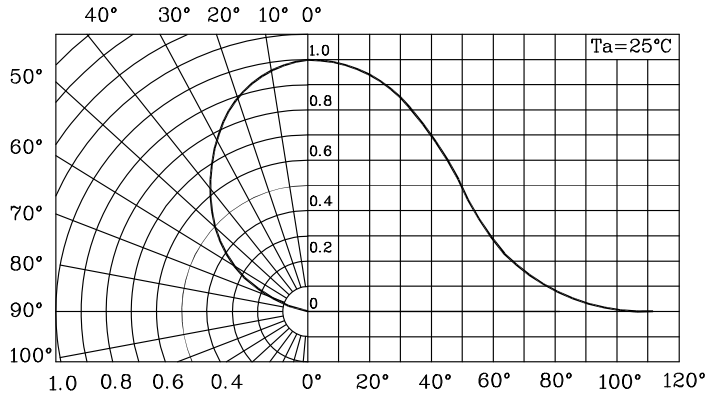
### Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Value	Unit
Wavelength at peak emission IF=350mA [Typ.]	$\lambda$ peak	590	nm
Dominate Wavelength IF=350mA [Typ.]	$\lambda$ dom	588	nm
Spectral bandwidth at 50% $\Phi$ REL MAX IF=350mA [Typ.]	$\Delta\lambda$	20	nm
Forward Voltage IF=350mA [Min.]	V <sub>F</sub>	2.0	V
Forward Voltage IF=350mA [Typ.]		2.5	
Forward Voltage IF=350mA [Max.]		3.0	
Temperature coefficient of I <sub>peak</sub> IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TC $\lambda$ peak	0.09	nm/°C
Temperature coefficient of I <sub>dom</sub> IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TC $\lambda$ dom	0.06	nm/°C
Temperature coefficient of V <sub>F</sub> IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TC <sub>V</sub>	-3.2	mV/°C

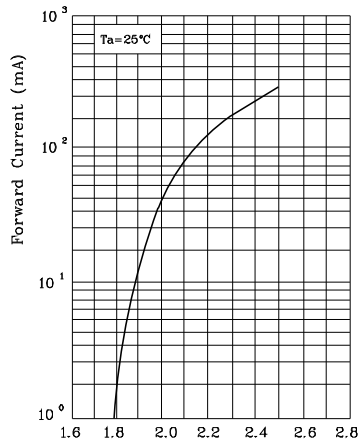
XZMYH106W



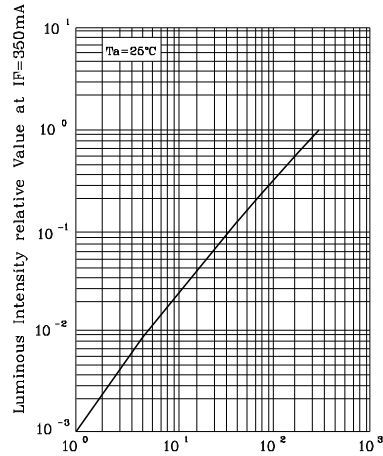
RELATIVE INTENSITY Vs. WAVELENGTH



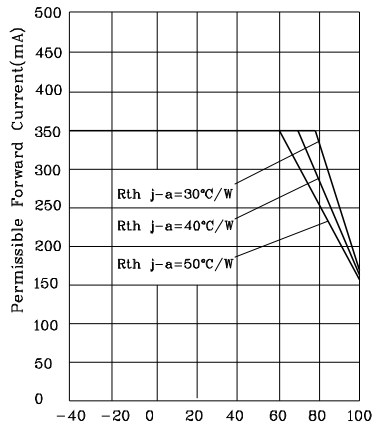
SPATIAL DISTRIBUTION



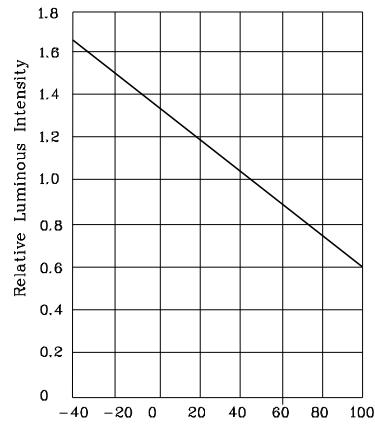
FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



FORWARD CURRENT DEBRATING CURVE

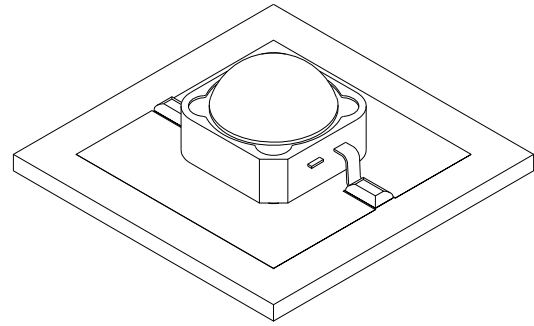
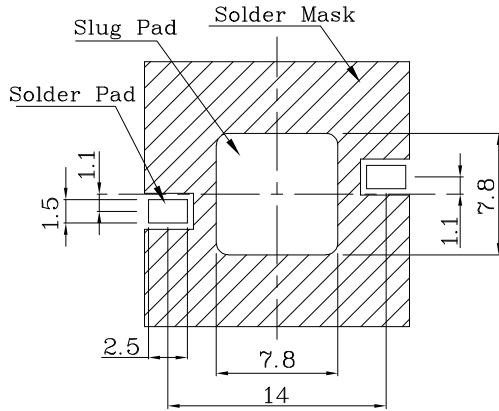


LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

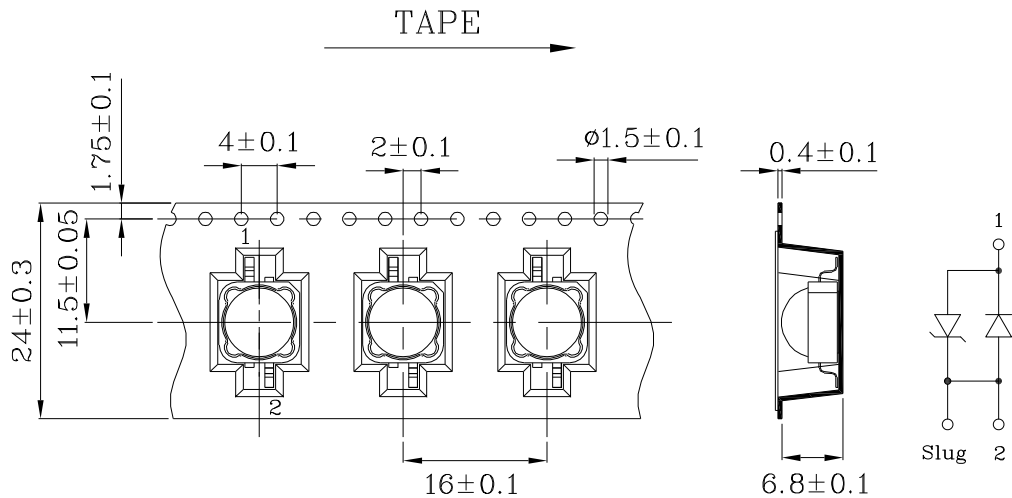


**Recommended Soldering Pattern**  
(Units : mm; Tolerance:  $\pm 0.1$ )

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



❖ **Tape Specification (Units : mm)**



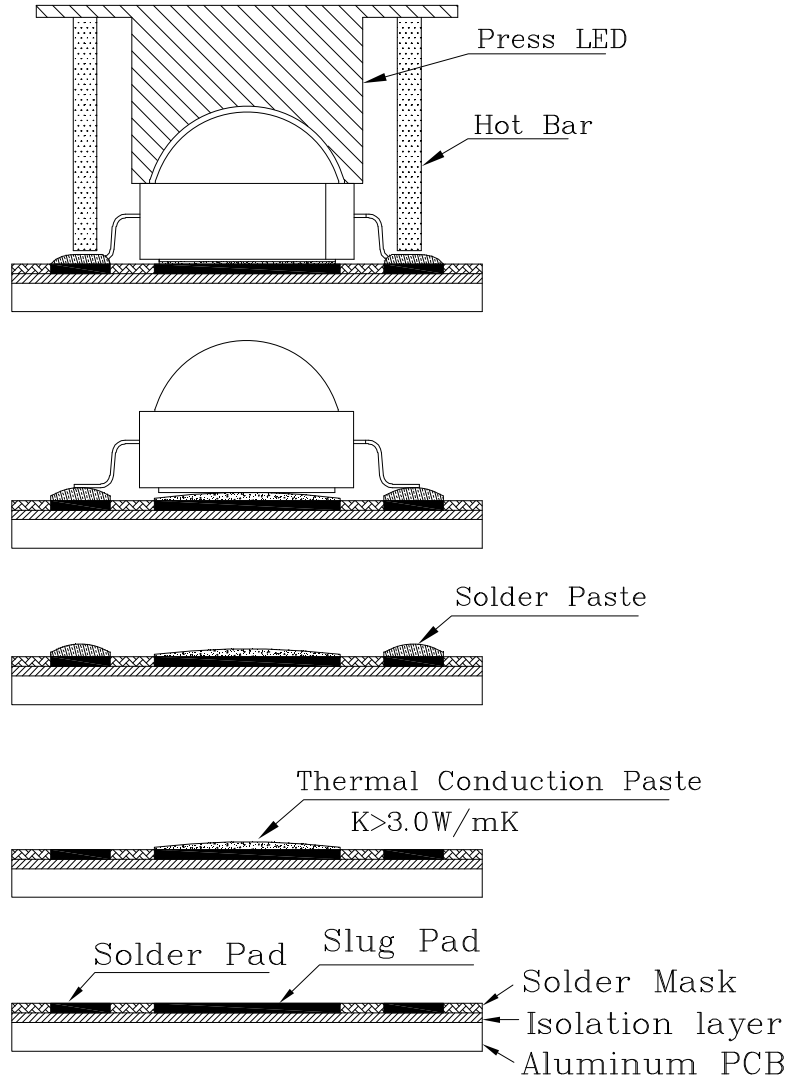
Remarks:

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:  $\pm 1$ nm
2. Luminous Intensity / Luminous Flux:  $\pm 15\%$
3. Forward Voltage:  $\pm 0.1$ V

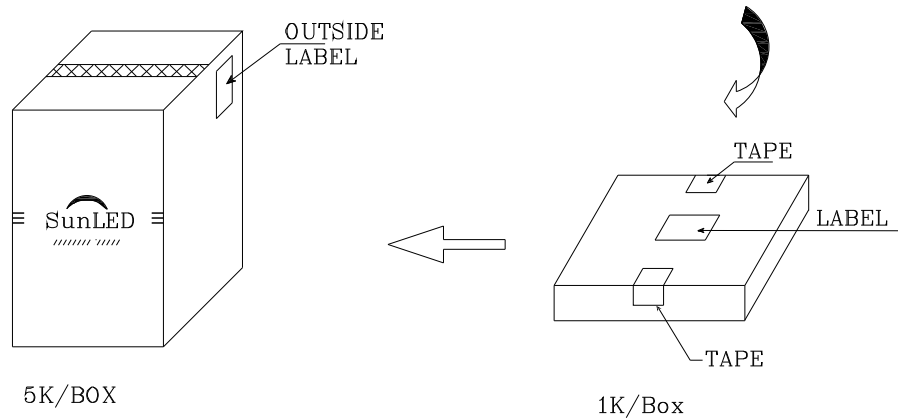
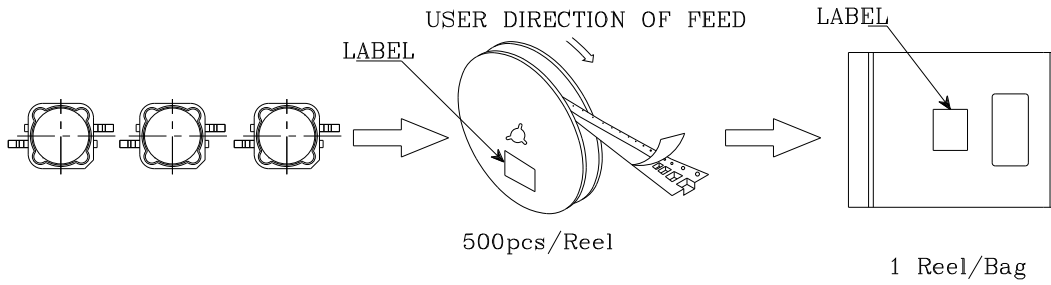

Note: Accuracy may depend on the sorting parameters.

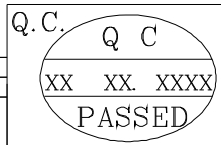

**Recommended Solder Steps**



**PACKING & LABEL SPECIFICATIONS**

**XZMYH106W**

	
P/NO : XZxxx106x	
QTY : 500 pcs	CODE: XXX
S/N : XX	
LOT NO :	
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	