



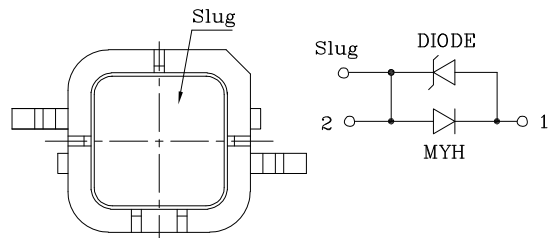
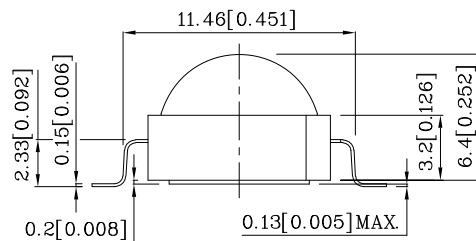
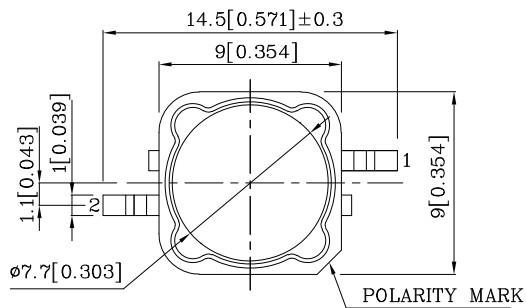
PRELIMINARY SPEC

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 λP	Viewing Angle 2 θ 1/2 [2]
				min.	typ.		
ZMYH106W	Yellow	InGaAlP	Water Clear	8	11.5	590	100°

Absolute Maximum Ratings at TA=25°C

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

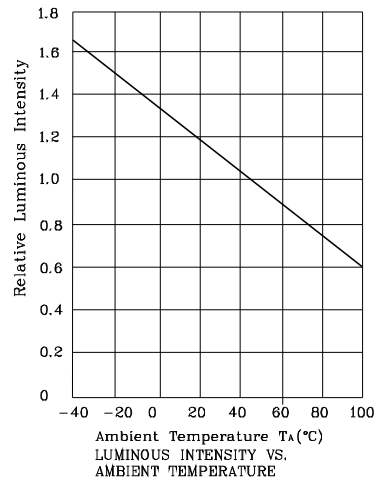
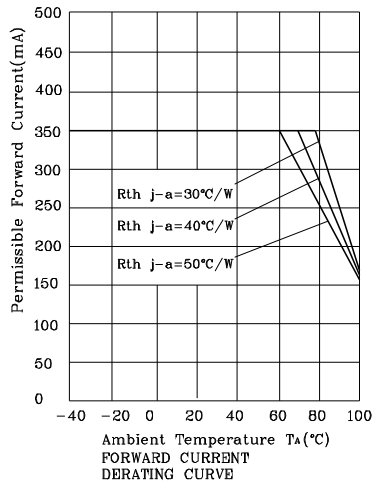
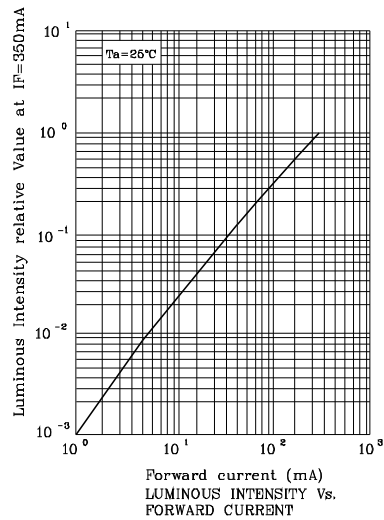
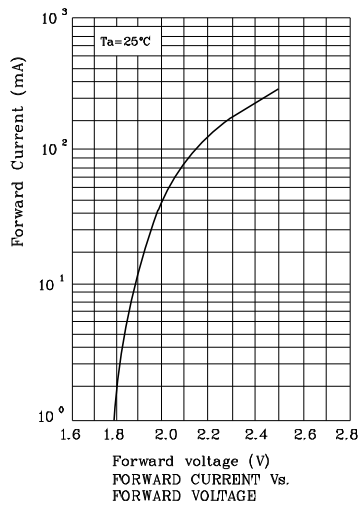
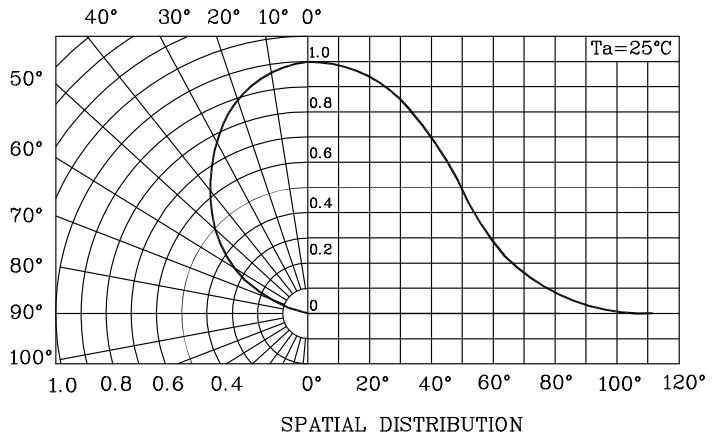
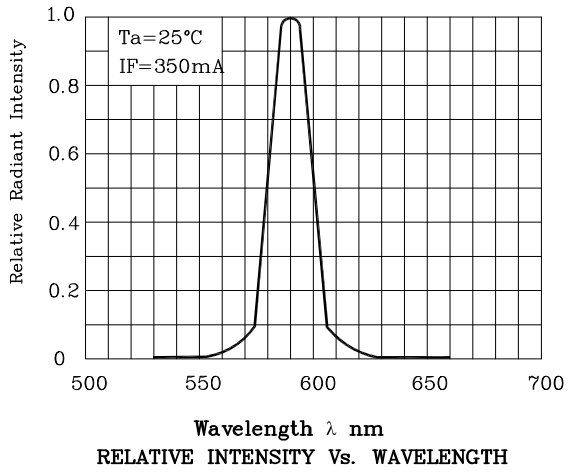
Notes:

1. Metal Core PCB is mounted on the heat Fins.
2. θ 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.]	λ peak	590	nm
Dominate Wavelength IF=350mA [Typ.]	λ dom	588	nm
Spectral bandwidth at 50% Φ REL MAX IF=350mA [Typ.]	$\Delta\lambda$	20	nm
Forward Voltage IF=350mA [Min.]	V _F	2.0	V
Forward Voltage IF=350mA [Typ.]		2.5	
Forward Voltage IF=350mA [Max.]		3.0	
Temperature coefficient of I _{peak} IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TC λ peak	0.09	nm/°C
Temperature coefficient of I _{dom} IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TC λ dom	0.06	nm/°C
Temperature coefficient of V _F IF=350mA, -10°C ≤ T ≤ 100°C [Typ.]	TC _V	-3.2	mV/°C

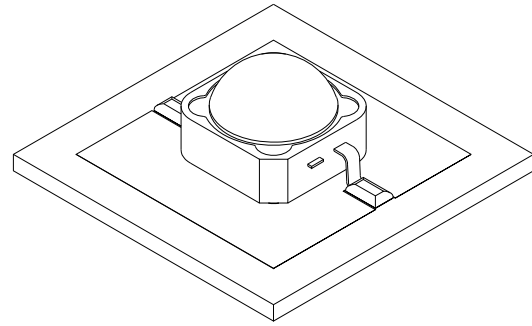
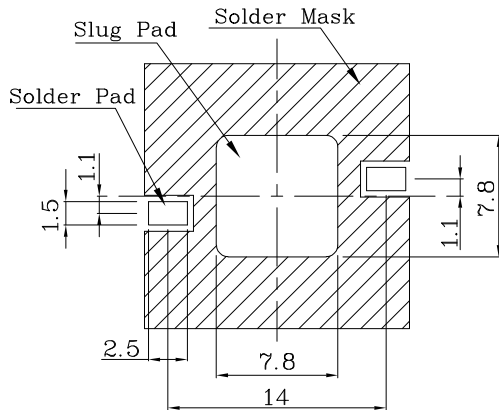
ZMYH106W



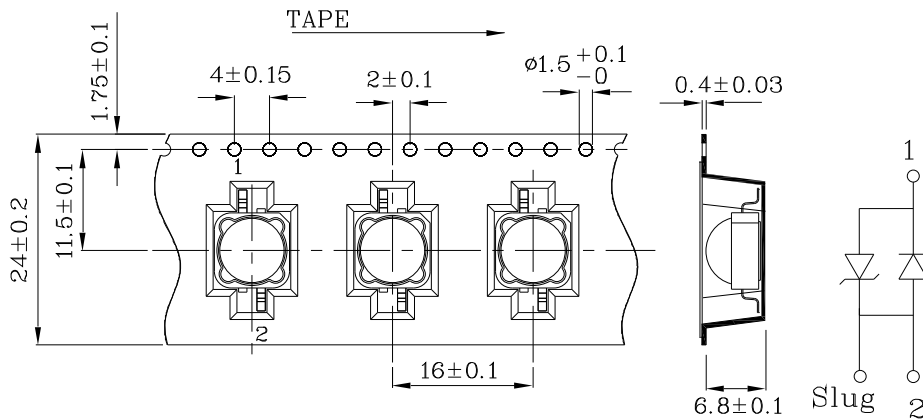


Recommended Soldering Pattern
(Units : mm; Tolerance: ± 0.1)

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



❖ **Tape Specification (Units : mm)**



Remarks:

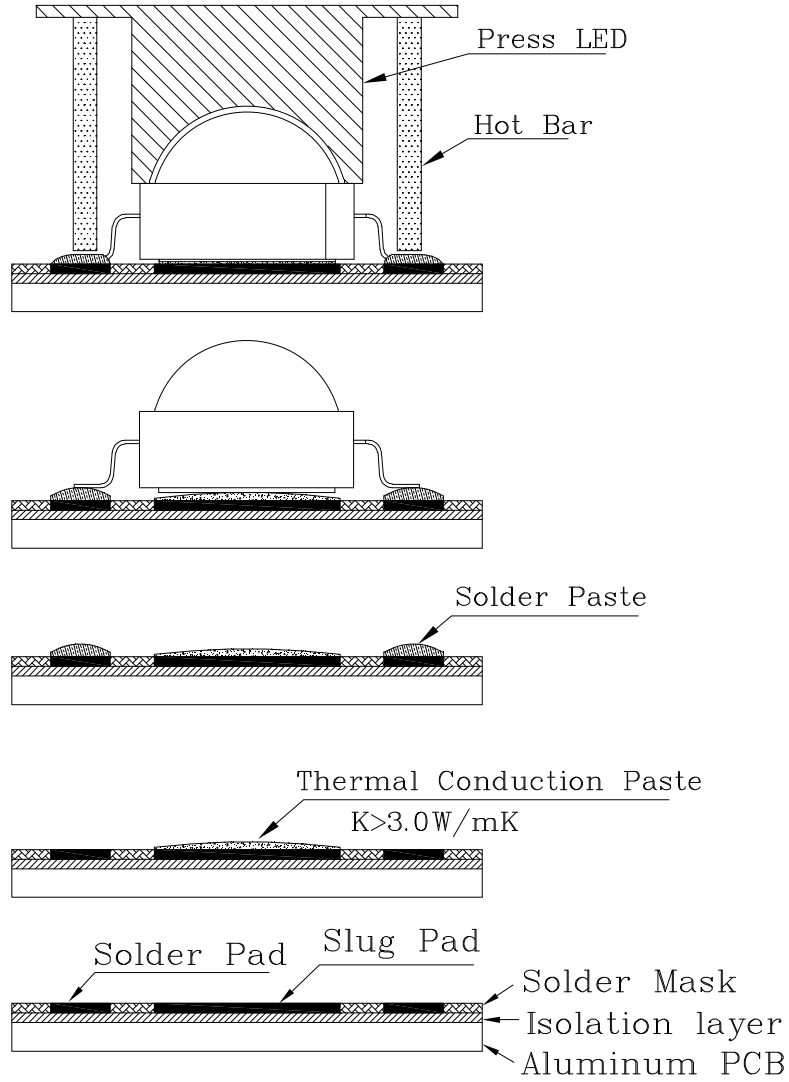
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

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

Note: Accuracy may depend on the sorting parameters.

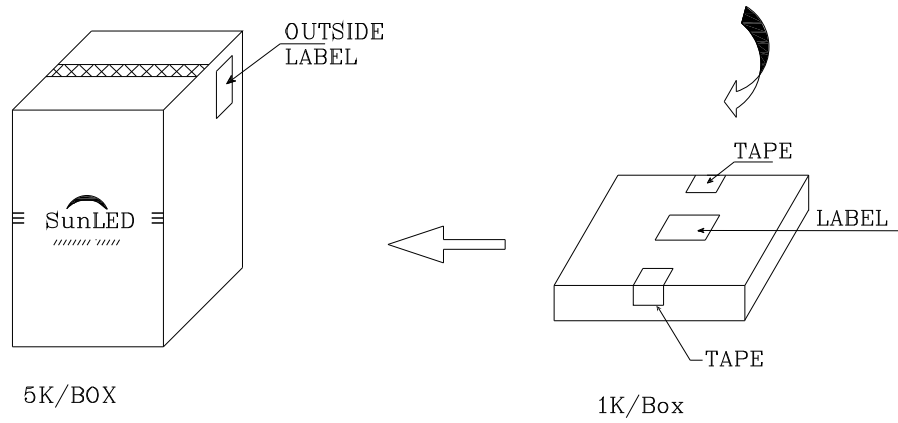
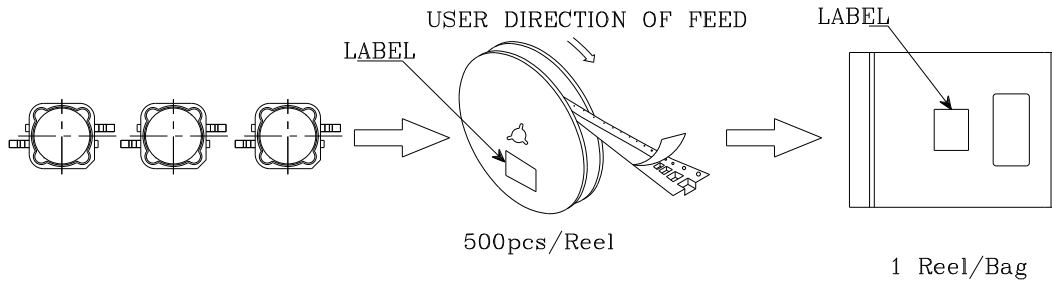



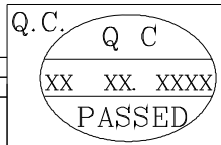

Recommended Solder Steps



PACKING & LABEL SPECIFICATIONS

ZMYH106W

	
P/NO : Zxxx106x	
QTY : 500 pcs	CODE: XXX
S/N : XX	
LOT NO :	
 XXXXXXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	