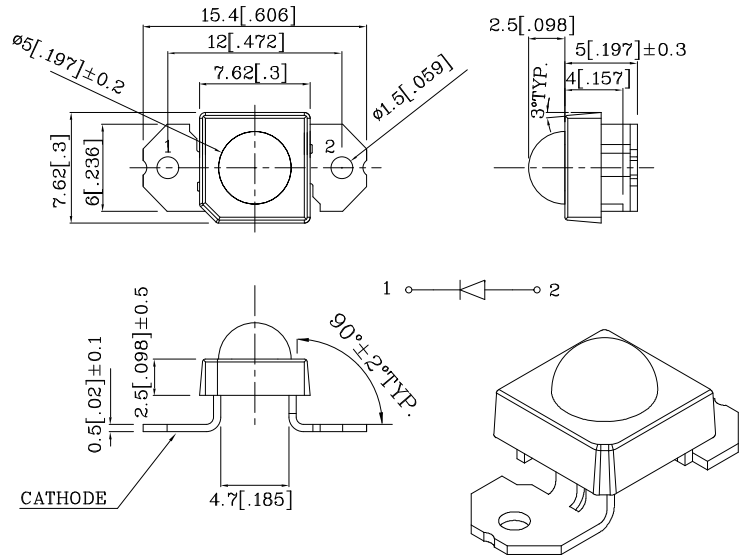


PRELIMINARY SPEC



**Features:**

- HIGH LUMINANCE OUTPUT.
- DESIGN FOR HIGH CURRENT OPERATION.
- SOLDERLESS MOUNTING TECHNIQUE.
- LOW POWER CONSUMPTION.
- LOW THERMAL RESISTANCE.
- LOW PROFILE.
- PACKAGED IN TUBES FOR USE WITH AUTOMATIC INSERTION EQUIPMENT.
- RoHS COMPLIANT.



**Benefits:**

- \*Rugged Lighting Products.
- \*Electricity savings.
- \*Maintenance savings.
- \*Environmental Conformance.

**Typical Applications:**

- \*Automotive Exterior Lighting.
- \*Solid State Lighting and Signaling.

Absolute Maximum Ratings (TA=25°C)		M2CY (AlInGaP)	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	70	mA
Power Dissipation	PT	245	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-55 ~ +85	

Notes:

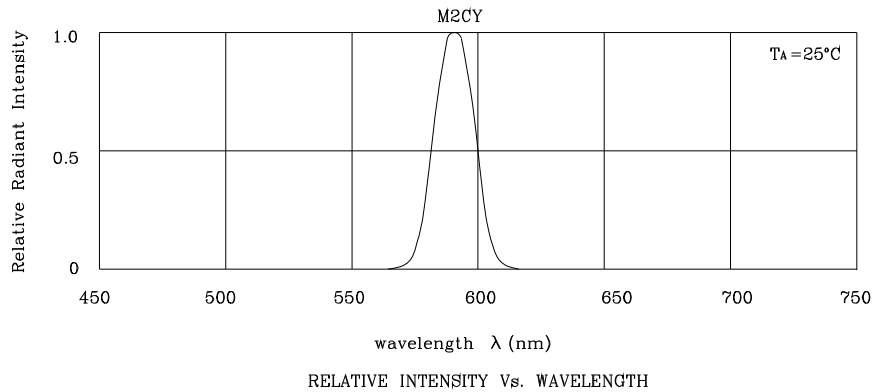
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.
3. Specifications are subject to change without notice.

Operating Characteristics (TA=25°C)		M2CY (AlInGaP)	Unit
Forward voltage (Min.) (IF=70mA)	VF	2.2	V
Forward Voltage (Typ.) (IF=70mA)	VF	2.9	V
Forward Voltage (Max.) (IF=70mA)	VF	3.5	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength Of Peak Emission (Typ.) (IF=70mA)	λ P	590	nm
Wavelength Of Dominant Emission (Typ.) (IF=70mA)	λ D	589	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=70mA)	Δλ	20	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	45	pF
Thermal Resistance (Typ.)	Rθj-pin	125	°C/W

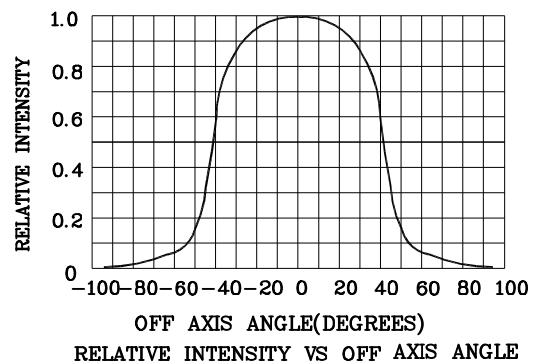
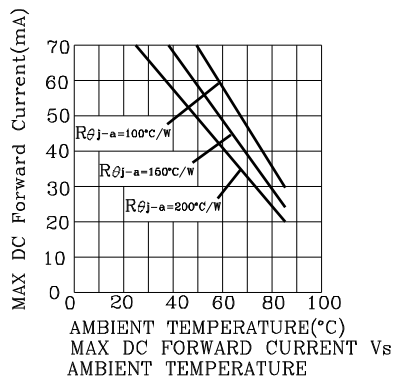
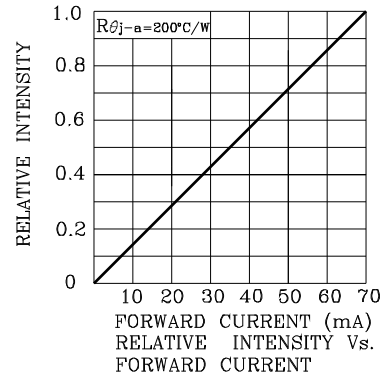
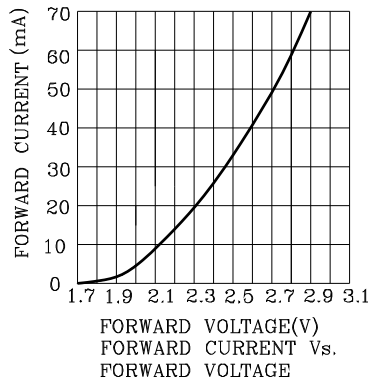
1.The dominant wavelength is derived from the CIE Chromaticity Diagram and represents the perceived color of the device.

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=70mA)[1]		Luminous Flux (IF=70mA) mlm	Wavelength nm λ P	Viewing Angle[2] 2 θ 1/2
				min.	typ.			
XSM2CY120W	Yellow	AlInGaP	Water Clear	1500	2790	6900	590	85°

1. LUMINOUS INTENSITY IS MEASURED WITH AN INTEGRATING SPHERE AFTER THE DEVICE HAS STABILIZED.
2. θ 1/2 IS THE ANGLE FROM OPTICAL CENTERLINE WHERE THE LUMINOUS INTENSITY IS 1/2 THE OPTICAL CENTERLINE VALUE.

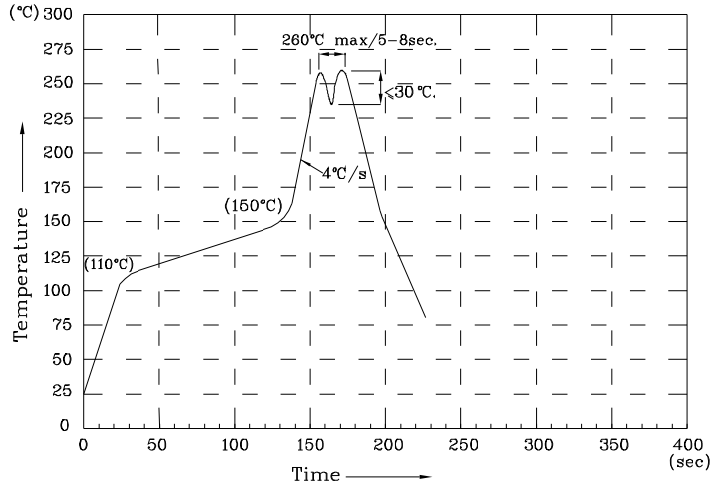


❖ M2CY



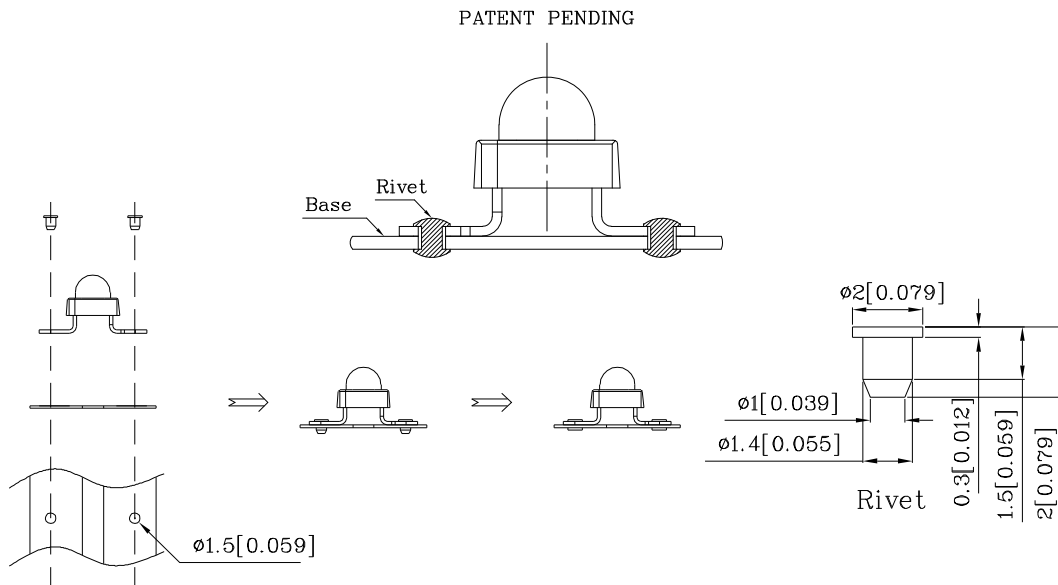
XSM2CY120W

Wave Soldering Profile For Lead-free Through-hole LED.



NOTES:

1. Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
2. Do not apply stress on epoxy resins when temperature is over 85 degree°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. No more than once.



Remarks:

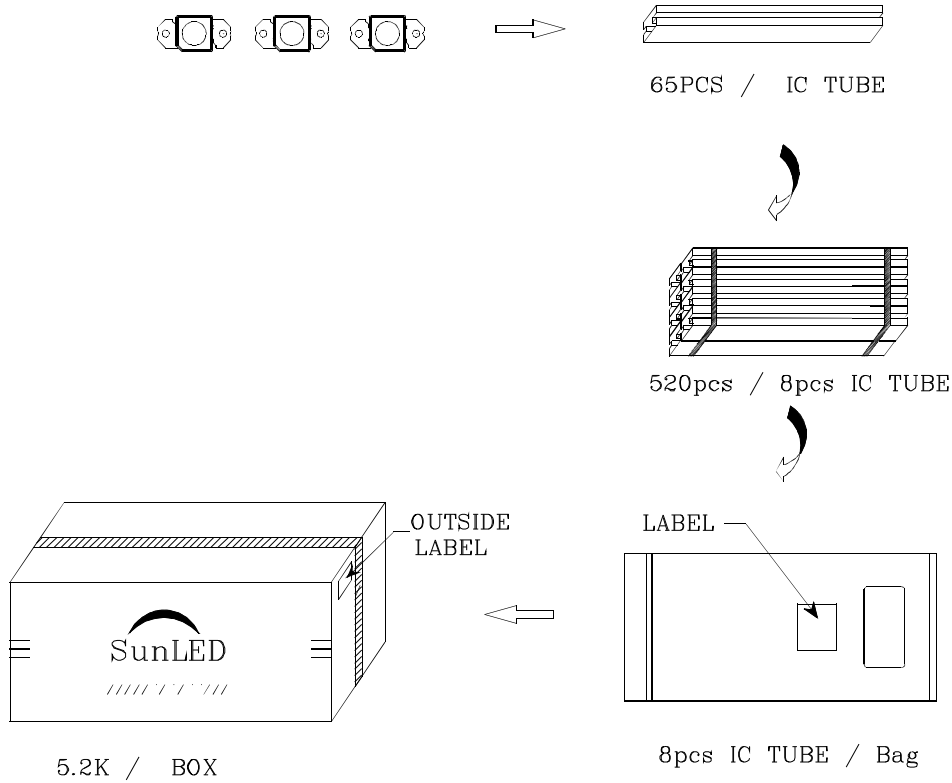

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

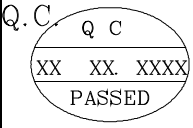
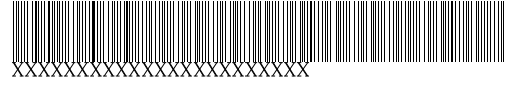
1. Wavelength: +/-1nm
2. Luminous Intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

**PACKING & LABEL SPECIFICATIONS**

**XSM2CY120W**

	
P/NO : XSxxx120x	
QTY : 520 pcs	CODE: XXX
S/N : XX	
LOT NO:	
	
RoHS Compliant	