SunLED
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Part Number: XSM2ACY883W

SUPER FLUX LED LAMP

Features

- High current operation for greater luminous output
- Low power consumption and thermal resistance
- Can be used with automatic insertion equipment
- RoHS Compliant

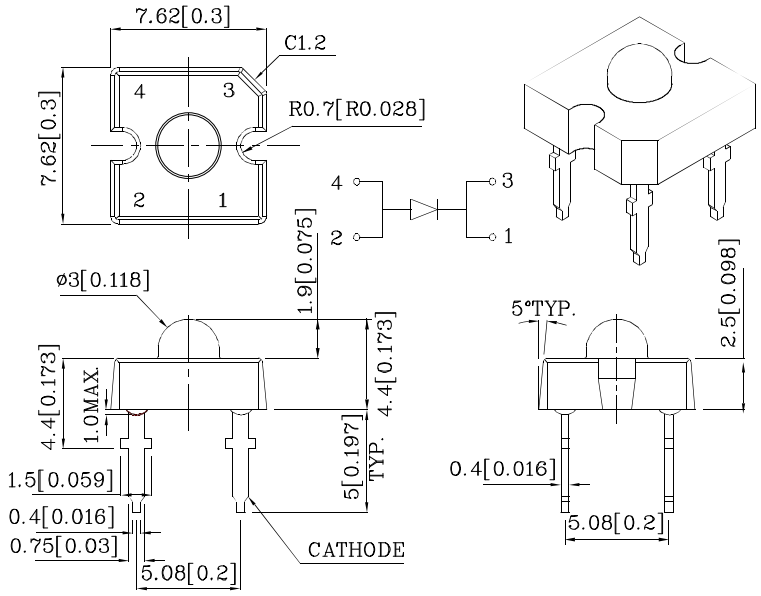
Benefits:

- Rugged design allows for easy maintenance
- Robust package for optimum reliability

Typical Applications:

- Automotive side markers
- Gaming and entertainment lighting
- Signs and road hazard indicators

Package Schematics



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.

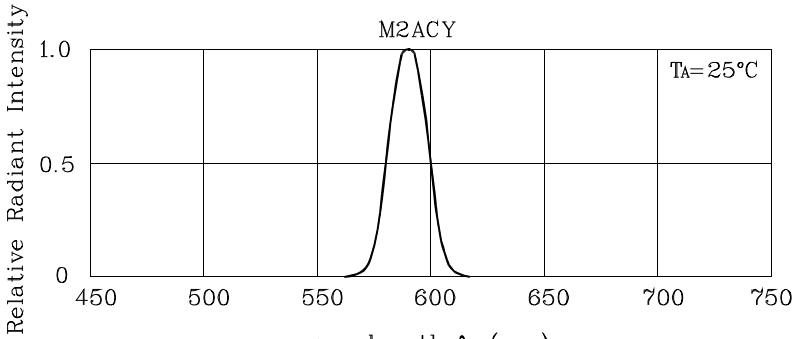
Absolute Maximum Ratings (T_A=25°C)		**M2ACY (AlGaInP)**	**Unit**
Reverse Voltage	V_R	5	V
DC Forward Current	I_F	70	mA
Power Dissipation	P_D	210	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	Tstg	-55 ~ +85	
Lead Solder Temperature [1.5mm Below Seating Plane.][1]		260°C For 5 Seconds	

1.No Reflow soldering .

Operating Characteristics (T_A=25°C)		**M2ACY (AlGaInP)**	**Unit**
Forward Voltage (Min.) (I_F=70mA)	V_F	2.2	V
Forward Voltage (Typ.) (I_F=70mA)	V_F	2.4	V
Forward Voltage (Max.) (I_F=70mA)	V_F	3	V
Reverse Current (Max.) (V_R=5V)	I_R	10	uA
Wavelength of Peak Emission (Typ.) (I_F=70mA)	λP	590	nm
Wavelength of Dominant Emission (Typ.) (I_F=70mA)	λD	589	nm
Spectral Line Full Width At Half Maximum (Typ.) (I_F=70mA)	△λ	20	nm
Capacitance (Typ.) (V_F=0V, f=1MHz)	C	45	pF
Thermal Resistance (Typ.)	Rθj-pin	125	°C/W

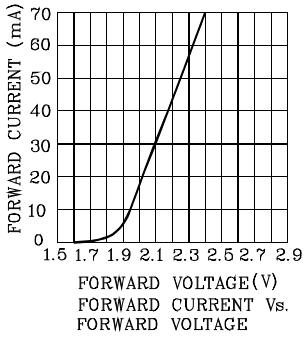
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I_F=70mA) cd		Luminous Flux (I_F=70mA) lm	Viewing Angle 2θ 1/2
				min.	typ.	typ.	
XSM2ACY883W	Yellow	AlGaInP	Water Clear	2.5	3.59	6.8	40°

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 of the optical peak value.

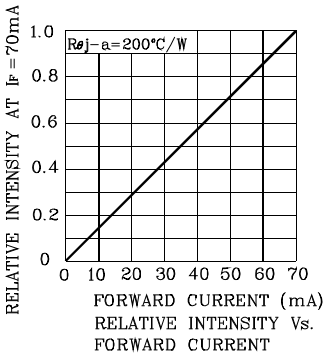


RELATIVE INTENSITY Vs. WAVELENGTH

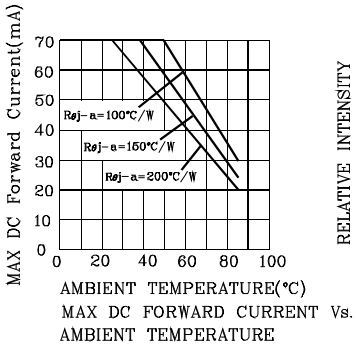
❖ M2ACY



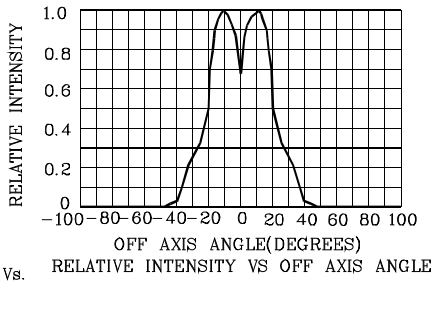
FORWARD CURRENT Vs. FORWARD VOLTAGE



RELATIVE INTENSITY Vs. FORWARD CURRENT

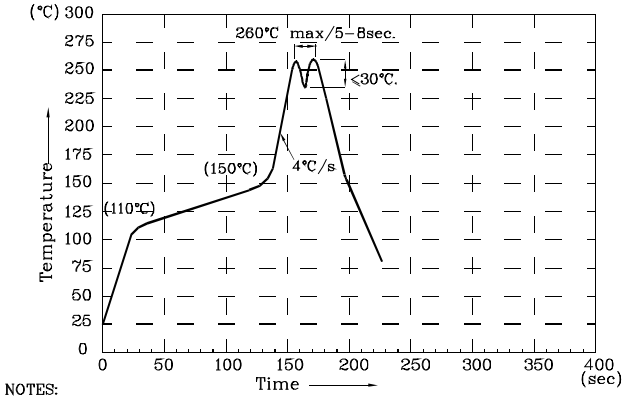


MAX DC FORWARD CURRENT Vs. AMBIENT TEMPERATURE



RELATIVE INTENSITY VS OFF AXIS ANGLE

Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



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°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. During wave soldering, the PCB top-surface temperature should be kept below 105°C.
5. No more than once.

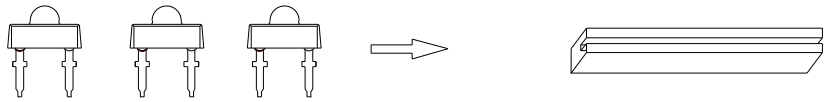
Remarks:

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:

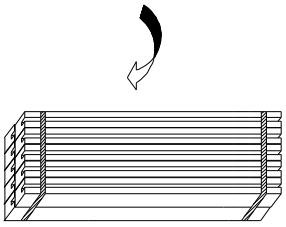
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

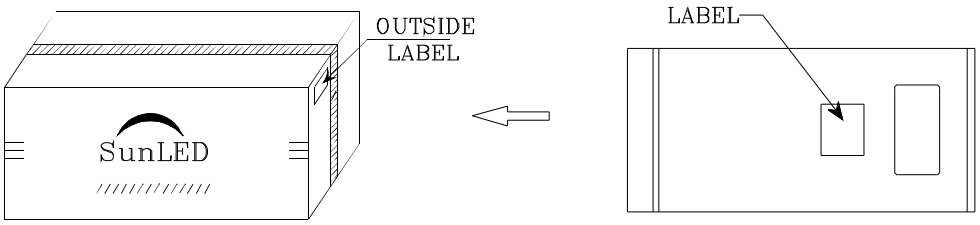
PACKING & LABEL SPECIFICATIONS



75PCS / IC TUBE(520x8.3x15mm)



750pcs / 10pcs IC TUBE



7.5K / BOX

10pcs IC TUBE / Bag