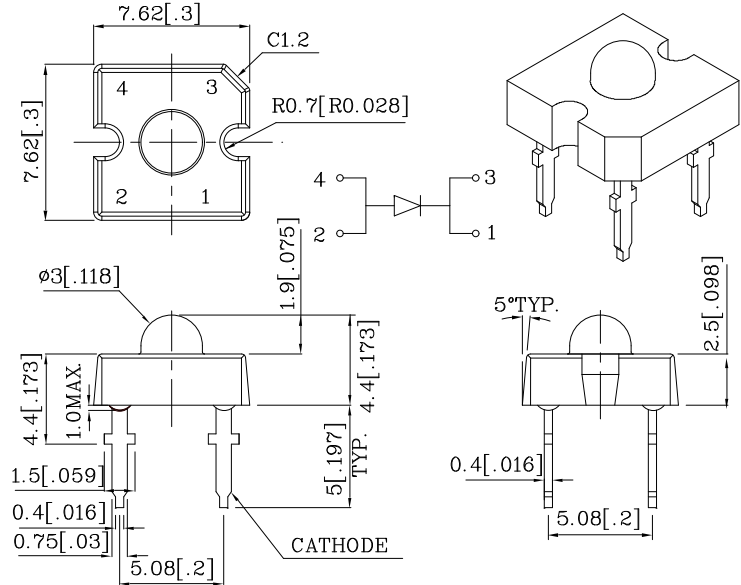


Features

- High luminance output.
- Design for high current operation.
- Uniform color.
- Low power consumption.
- Low thermal resistance.
- Low profile.
- Packaged in tubes for use with automatic insertion equipment.
- Soldering methods: wave soldering .
- RoHS compliant.



Benefits:

- *Outstanding Material Efficiency.
- *Electricity savings.
- *Maintenance savings.
- *Reliable and Rugged.

Typical Applications:

- *Automotive Exterior Lighting.
- *Electronic Signs and Signals.
- *Specialty 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.

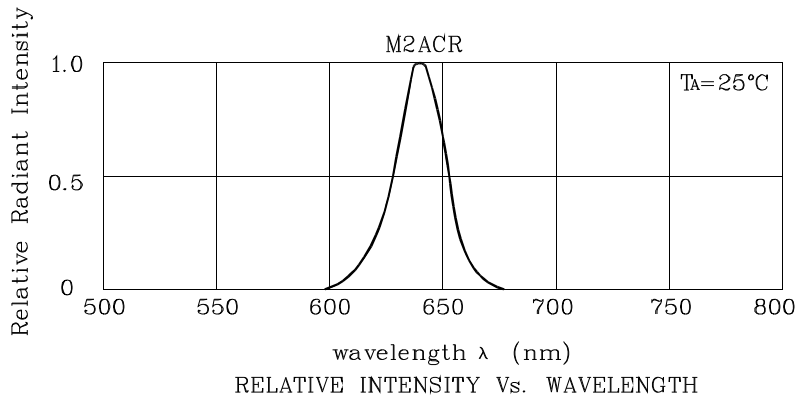
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		M2ACR (AlGaInP)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	70	mA
Power Dissipation	P_D	210	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	T_{stg}	-55 ~ +85	
Lead Solder Temperature [1.5mm(0.06inch)Below Seating Plane.][1]	260°C For 5 Seconds		

1.No Reflow soldering .

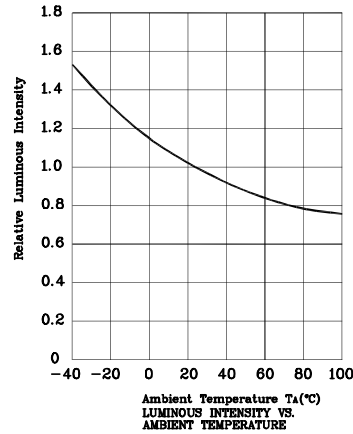
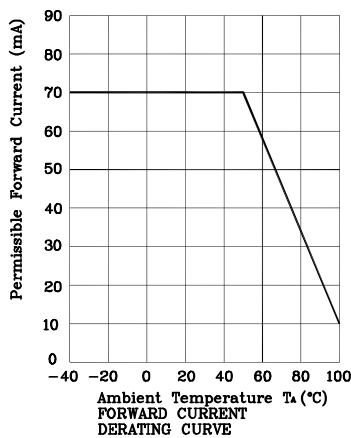
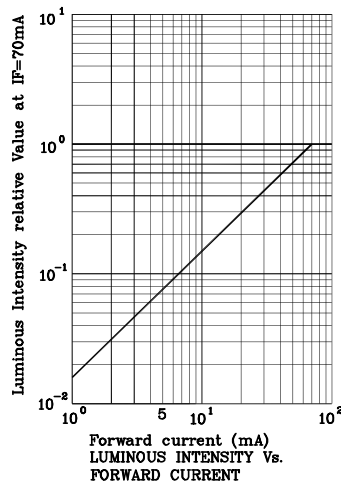
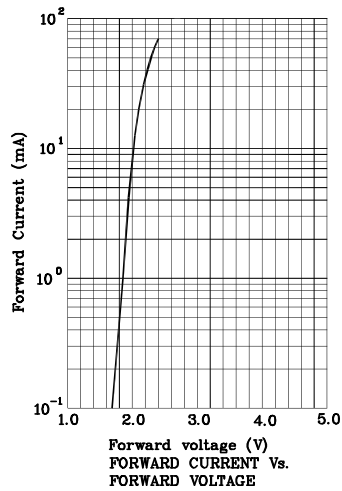
Operating Characteristics ($T_A=25^\circ\text{C}$)		M2ACR (AlGaInP)	Unit
Forward Voltage (Min.) ($I_F=70\text{mA}$)	V_F	2.2	V
Forward Voltage (Typ.) ($I_F=70\text{mA}$)	V_F	2.4	V
Forward Voltage (Max.) ($I_F=70\text{mA}$)	V_F	3.0	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	10	μA
Wavelength of Peak Emission (Typ.) ($I_F=70\text{mA}$)	λ_P	640	nm
Wavelength of Dominant Emission (Typ.) ($I_F=70\text{mA}$)	λ_D	625	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=70\text{mA}$)	$\Delta\lambda$	25	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	27	pF
Thermal Resistance (Typ.)	$R_{\theta j\text{-pin}}$	125	°C/W

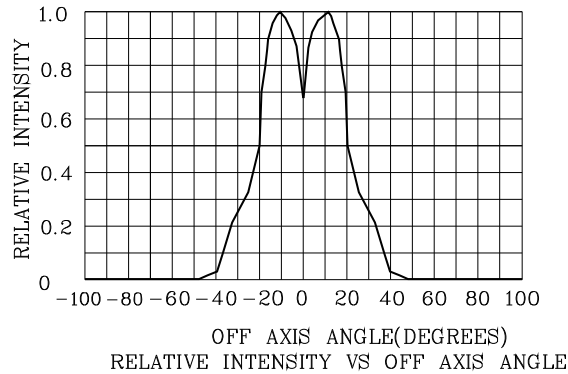
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=70mA) mcd		Luminous Intensity (IF=70mA) mlm	Wavelength nm λP	Viewing Angle $2\theta 1/2$
				min.	typ.	typ.		
XSM2ACR883W	Red	AlGaInP	Water Clear	8000	19990	6000	640	40°

1. LUMINOUS INTENSITY IS MEASURED WITH AN INTEGRATING SPHERE AFTER THE DEVICE HAS STABILIZED.
 2. $\theta 1/2$ IS THE ANGLE FROM OPTICAL CENTERLINE WHERE THE LUMINOUS INTENSITY IS 1/2 OF THE OPTICAL PEAK VALUE.

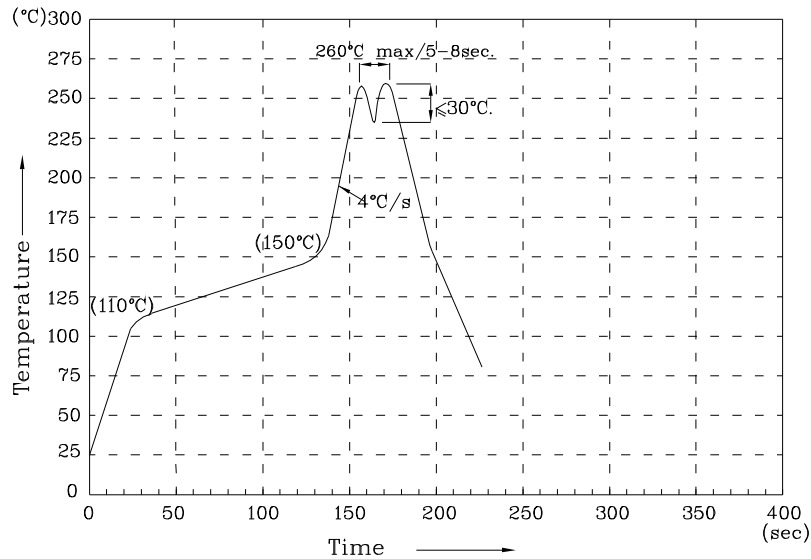


❖ M2ACR





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:

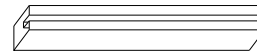
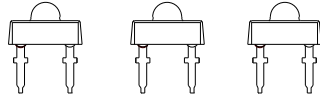
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

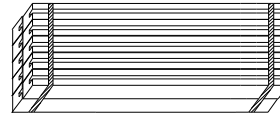
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

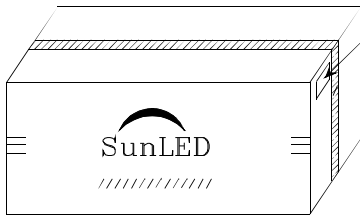
XSM2ACR883W



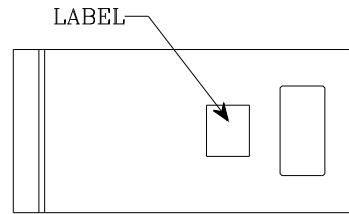
75PCS / IC TUBE(520x8.3x15mm)



750pcs / 10pcs IC TUBE



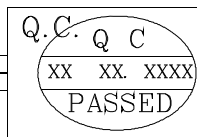
OUTSIDE LABEL




LABEL

7.5K / BOX

10pcs IC TUBE / Bag



P/NO : XSxxx883x	
QTY : 750 pcs	CODE: XXX
S/N : XX	
LOT NO:	
 xxxxxxxxxxxxxxxxxxxxxxxx	
RoHS Compliant	