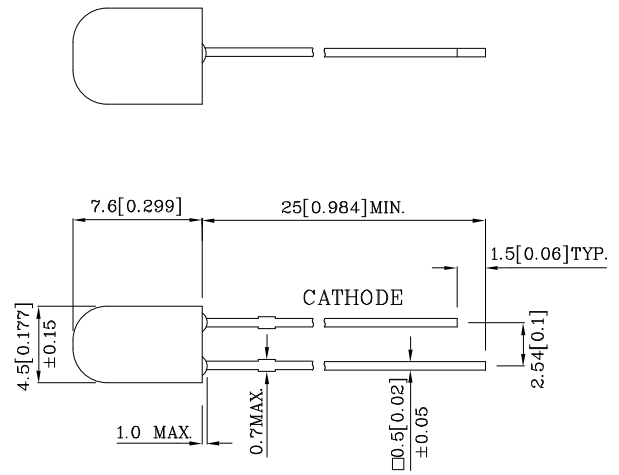
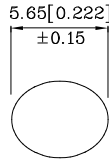


PRELIMINARY SPEC

Features

- Outstanding material efficiency.
- Reliable and rugged.
- Low current capability.
- RoHS compliant.



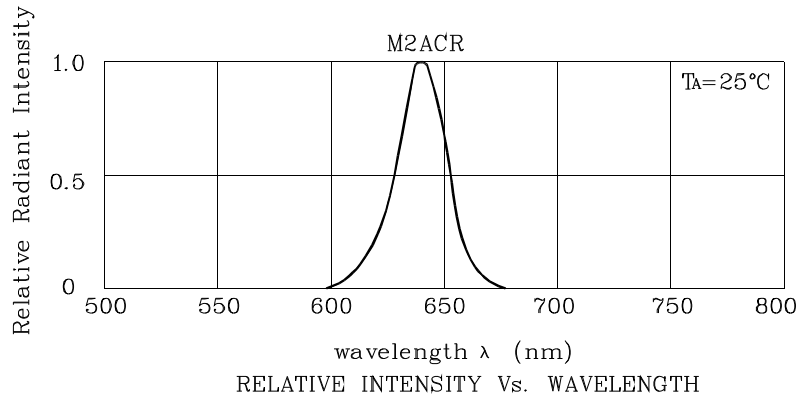
Notes:

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.

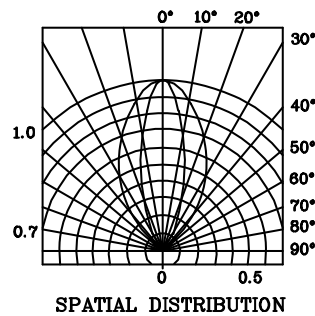
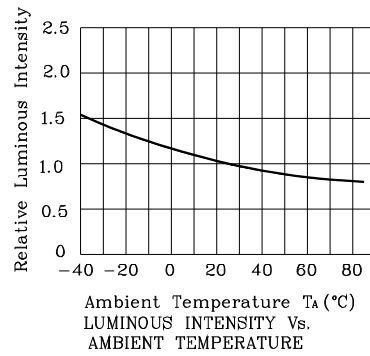
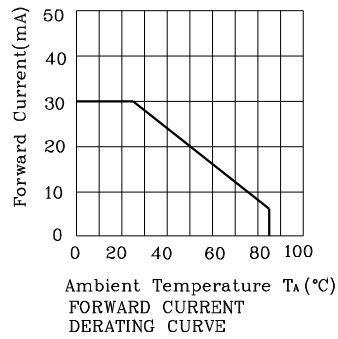
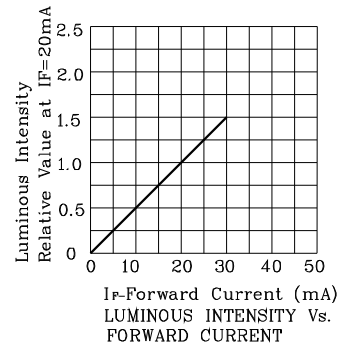
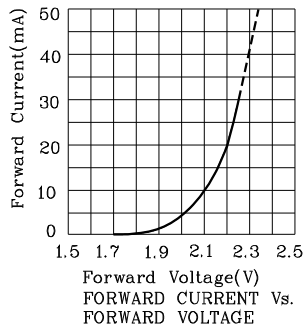
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		M2ACR (AlInGaP)	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	150	mA
Power Dissipation	P_T	84	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds		
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds		

Operating Characteristics ($T_A=25^\circ\text{C}$)		M2ACR (AlInGaP)	Unit
Forward Voltage (Typ.) ($I_F=20\text{mA}$)	V_F	2.2	V
Forward Voltage (Max.) ($I_F=20\text{mA}$)	V_F	2.8	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	10	μA
Wavelength Of Peak Emission (Typ.) ($I_F=20\text{mA}$)	λ_P	640	nm
Wavelength Of Dominant Emission (Typ.) ($I_F=20\text{mA}$)	λ_D	630	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=20\text{mA}$)	$\Delta\lambda$	25	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	27	pF

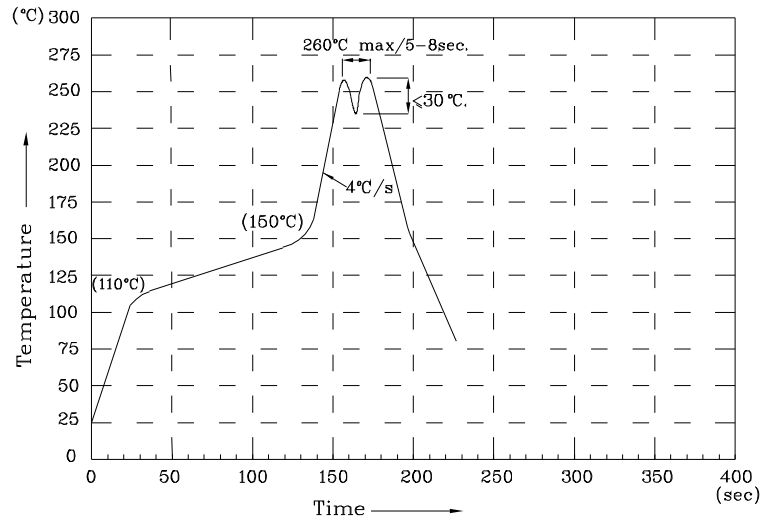
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity ($I_F=20\text{mA}$) mcd	Wavelength nm λ_P	Viewing Angle 2θ 1/2
				min.	typ.	
XLM2ACR08W	Red	AlInGaP	Water Clear	1800	3490	640 30°(H) 60°(V)



❖ 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:

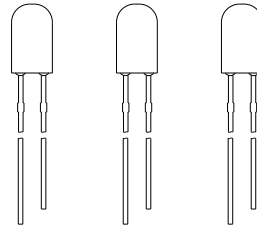
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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

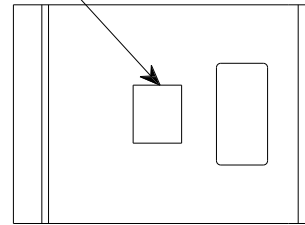
Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS

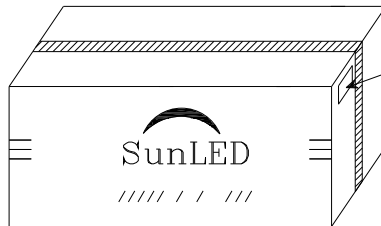
XLM2ACR08W



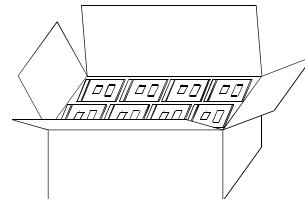
LABEL



500PCS/BAG

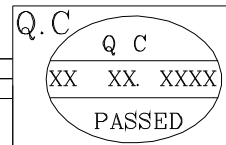



OUTSIDE LABEL



20K/BOX

10K/BOX



P/NO : XLxx08x	
QTY : 500 pcs	CODE: XXX
S/N : XX	
LOT NO:	
 XXXXXXXXXXXXXXXXXXXXXXXX	
RoHS Compliant	