

SnapLED

Features

- High current operation for greater luminous output
- Rivet design allows for solderless mounting
- Low power consumption and thermal resistance
- \bullet Can be used with automatic insertion equipment
- RoHS compliant.



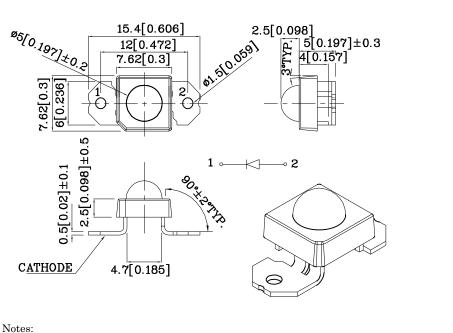
Benefits:

- $\bullet Rugged$ 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



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 Rating (T _A =25°C)	M2ACR (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	V
Forward Current	$I_{\rm F}$	70	mA
Power Dissipation	PD	245	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C
Storage Temperature	Tstg	-55 ~ +85	-0

Operating Characteristics (T _A =25°C)	M2ACR (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =70mA)	$V_{\rm F}$	2.8	V
Forward Voltage (Max.) (I _F =70mA)	$V_{\rm F}$	3.5	V
Reverse Current (Max.) (V _R =5V)	I_{R}	10	uA
Wavelength of Peak Emission (Typ.) (I _F =70mA)	λP	640	nm
Wavelength of Dominant Emission (Typ.) (I _F =70mA)	λD	625	nm
Spectral Line Full Width At Half Maximum (Typ.) (I _F =70mA)	$ riangle \lambda$	25	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	27	pF
Thermal Resistance (Typ.)	Rθj-pin	125	°C/W

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=70mA) cd		Luminous Flux (IF=70mA) lm	Wavelength nm λP	Viewing Angle 20 1/2
				min.	typ.	typ.		
XSM2ACR120W	Red	AlGaInP	Water Clear	5	7.49	6	640	85°

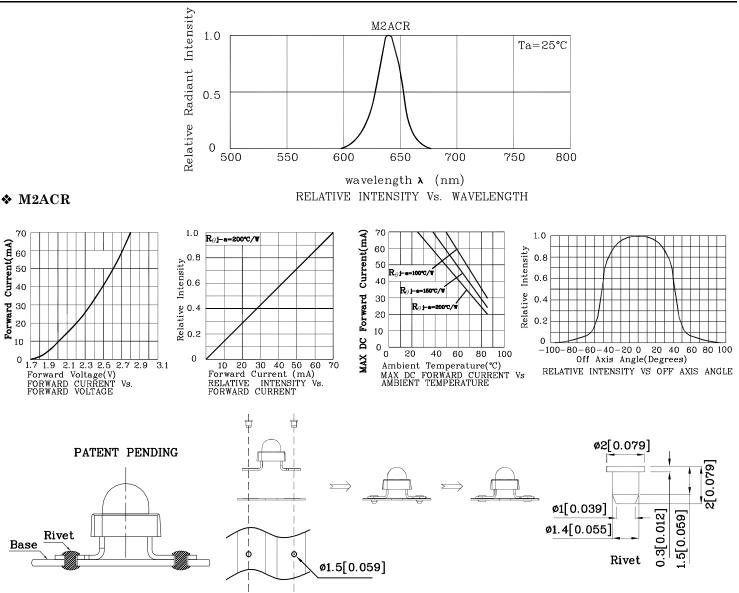
1.Luminous intensity is measured with an integrating sphere after the device has stabilized.

2.0 1/2 is the angle from optical centerline where the luminous intensity is 1/2 of the optical peak value.

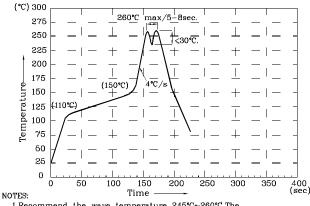
XDSB5575 V1 Layout: Maggie L.







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



Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
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 $^{\circ}\mathrm{C}.$

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

