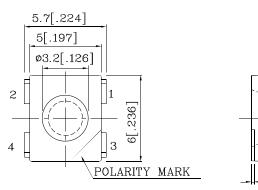
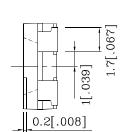
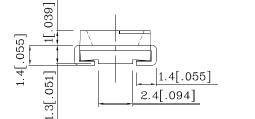


Features

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 500pcs / reel.
- Moisture sensitivity level : level 3.
- 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 (TA=25°C)	M2ACR (AlGaInP)	Unit	
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	150	mA
Power Dissipation	Pd	140	mW
Operating Temperature	ТА	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	-0

Operating Characteristics (TA=25°C)		M2ACR (AlGaInP)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	2.2	v
Forward Voltage (Max.) (IF=20mA)	VF	2.8	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (IF=20mA)	λΡ	640	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λD	625	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	25	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	С	27	pF

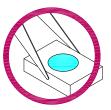
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=50mA) mcd		Wavelength nm λ P	Viewing Angle 2 0 1/2
		min.	typ.				
XZM2ACR82S	Red	AlGaInP	Water Clear	3300	4490	640	100°
Published Date : JU	JL 29,2010	Drawing 1	No : XDSB4917	V1	Checked : B	.L.LIU	P.1/5



Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



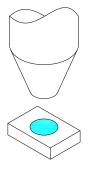
2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.



3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.

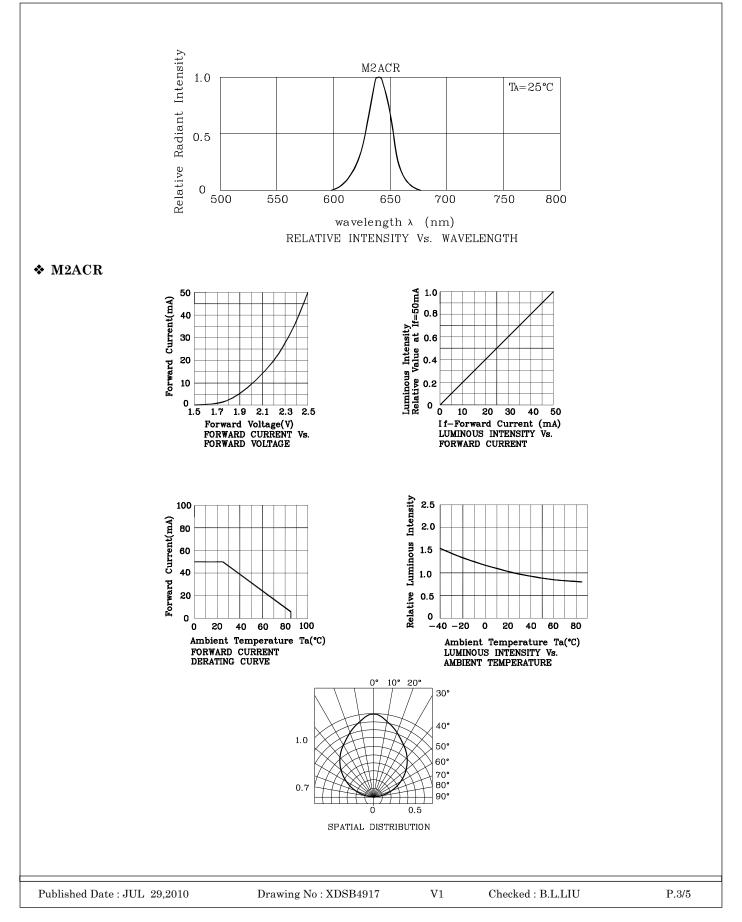


4. During surface-mounting, the pickup capillary diameter should be larger than the silicone lens to insure the capillary does not scratch or damage the lens.

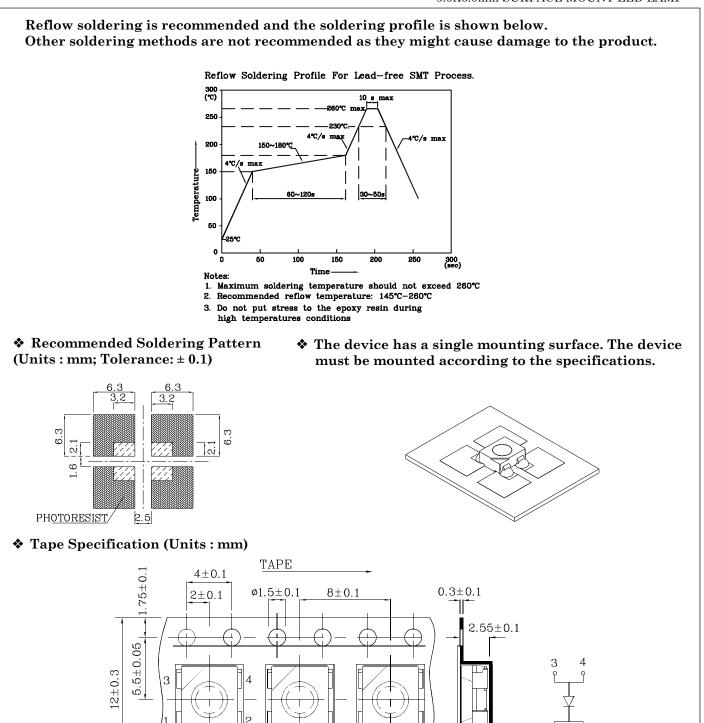


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Remarks:

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.

Published Date : JUL 29,2010

V1

2



