

# Part Number: XZM2ACR53W

1.6x0.8mm SMD CHIP LED LAMP

# PRELIMINARY SPEC

## **Features**

- •1.6mmx0.8mm SMT LED, 1.1mm thickness.
- •Low power consumption.
- •Wide viewing angle.
- •Ideal for backlight and indicator.
- •Various colors and lens types available.
- •Package: 2000pcs / reel .
- •Moisture sensitivity level : level 3.
- •RoHS compliant.



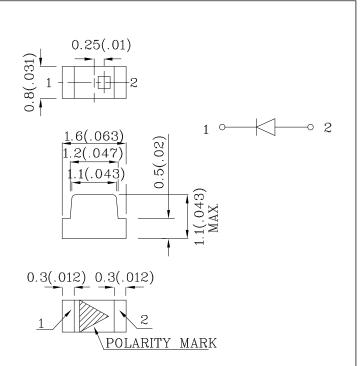
### Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.1(0.004")$  unless otherwise noted.

3. Specifications are subject to change without notice.

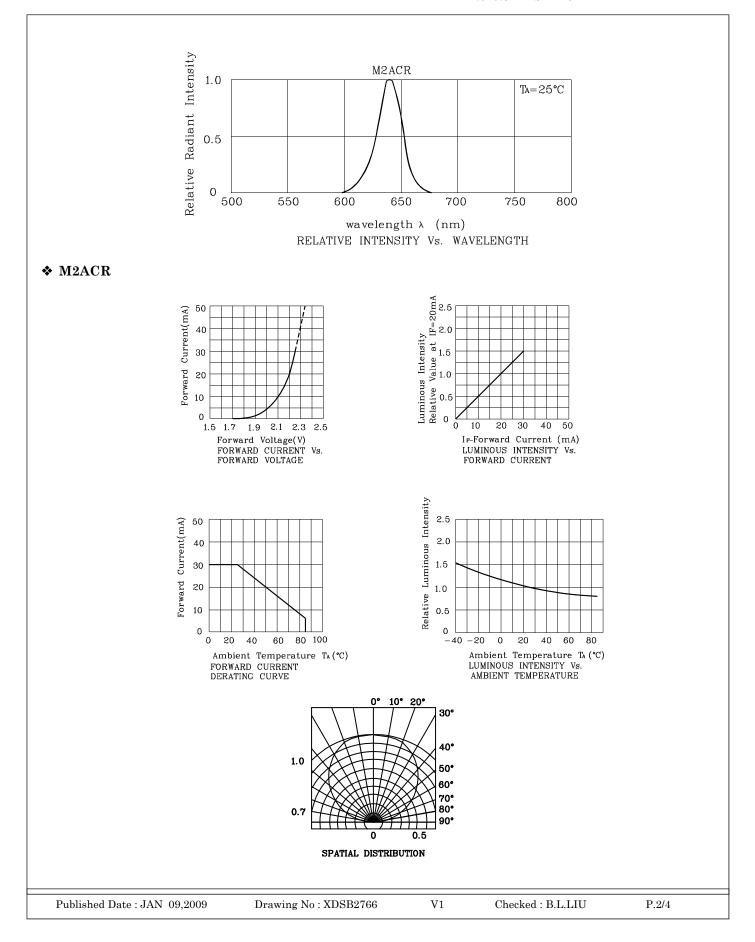
Absolute Maximum Rating (TA=25°C)	M2ACR (AlInGaP)	Unit	
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	150	mA
Power Dissipation	Рт	84	mW
Operating Temperature	ТА	$-40 \sim +85$	°C
Storage Temperature	Tstg	-40 ~ +85	-0



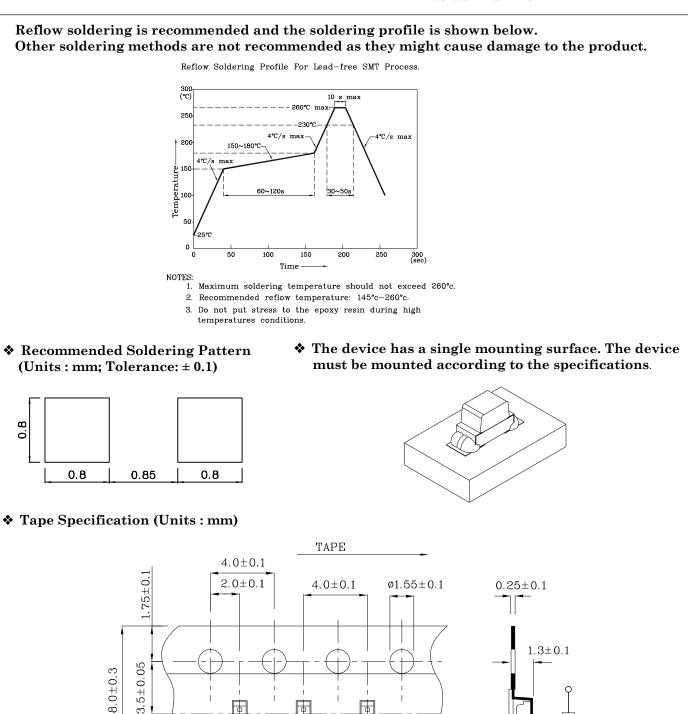
Operating Characteristi (TA=25°C)	M2ACR (AlInGaP)	Unit	
Forward Voltage (Typ.) (IF=20mA)	VF	2.2	V
Forward Voltage (Max.) (IF=20mA)	VF	2.8	V
Reverse Current (Max.) (VR=5V)	Ir	10	uA
Wavelength of Peak Emission (Typ.) (IF=20mA)	λΡ	640	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λD	630	nm
Spectral 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=20mA) mcd		Wavelength nm λ P	Viewing Angle 2 0 1/2
				min.	typ.		
XZM2ACR53W	Red	AlInGaP	Water Clear	650	995	640	120°
Published Date :	JAN 09,2009	Drawing N	o : XDSB2766	V1	Checked	: B.L.LIU	P.1/4









#### **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.

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V1 Checked : B.L.LIU



