

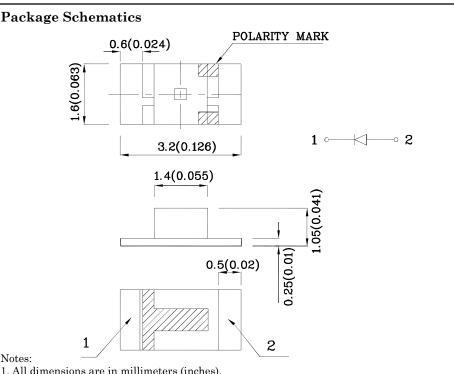
Part Number: XZM2ACR55W-2

3.2x1.6mm SMD CHIP LED LAMP

Features

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package : 2000 pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant





1. All dimensions are in millimeters (inches).

2. Tolerance is $\pm 0.2(0.008")$ unless otherwise noted.

3. Specifications are subject to change without notice.

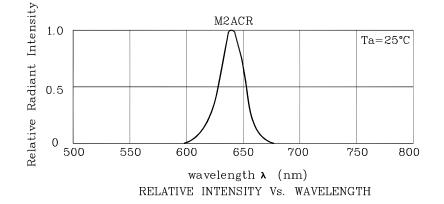
| Absolute Maximum Ratings (T _A =25°C) | | M2ACR (AlGaInP) | Unit | |
|--|---------------------------|--------------------|------|--|
| Reverse Voltage | V_{R} | 5 | V | |
| Forward Current | $I_{\rm F}$ | 30 | mA | |
| Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width | $i_{\rm FS}$ | 150 | mA | |
| Power Dissipation | \mathbf{P}_{D} | 84 | mW | |
| Operating Temperature | $T_{\rm A}$ | -40°C To +85°C | °C | |
| Storage Temperature | Tstg | -40°C To +85°C | Ū | |

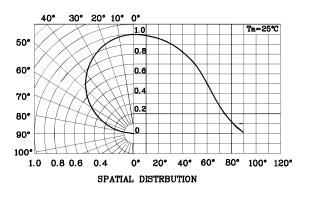
| Operating Characteristics (T _A =25°C) | | M2ACR (AlGaInP) | Unit | |
|--|--------------------|--------------------|-------------|--|
| Forward Voltage (Typ.) (I _F =20mA) | V_{F} | 2.2 | V | |
| Forward Voltage (Max.) (I _F =20mA) | $V_{\rm F}$ | 2.8 | V | |
| Reverse Current (Max.) (V _R =5V) | I_{R} | 10 | uA | |
| Wavelength of Peak Emission (Typ.) (I _F =20mA) | λΡ | 640 | nm | |
| Wavelength of Dominant Emission (Typ.) (I _F =20mA) | λD | 625 | nm | |
| Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA) | $	riangle \lambda$ | 25 | nm | |
| Capacitance (Typ.) (V _F =0V, f=1MHz) | С | 27 | $_{\rm pF}$ | |

| min. typ. XZM2ACR55W-2 Red AlGaInP Water Clear 700 1295 640 120° | Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (I _F =20mA) mcd | | Wavelength nm λP | Viewing Angle 20 1/2 |
|--|----------------|-------------------|----------------------|-------------|--|------|------------------------|----------------------------|
| XZM2ACR55W-2 Red AlGaInP Water Clear 700 1295 640 120° | | | | | min. | typ. | | |
| | XZM2ACR55W-2 | Red | AlGaInP | Water Clear | 700 | 1295 | 640 | 120° |

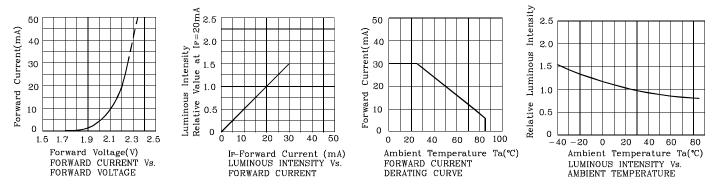
XDSB2769 V2 Layout: Maggie L.







♦ M2ACR



LED is recommended for reflow soldering and soldering profile is shown below.

300 (°C) 10 s max 250 4°C/s C/s max 200 150~180 4°C/s max 150 Temperature 30~50s 80~120: 100 50 0 150 0 50 100 200 250 300 (sec) Time Notes: 1. Maximum soldering temperature should not exceed 260°C

Reflow Soldering Profile for SMD Products (Pb-Free Components)

Maximum soldering temperature should not exceed 20
Recommended reflow temperature: 145°C-260°C

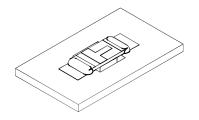
3. Do not put stress to the epoxy resin during

high temperatures conditions

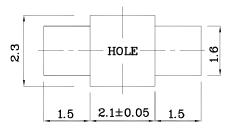


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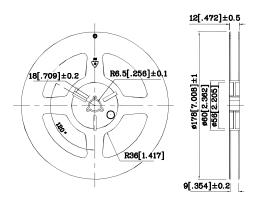
✤ The device has a single mounting surface. The device must be mounted according to the specifications.



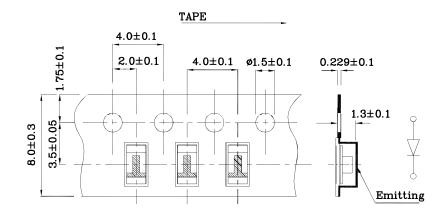
Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)



Reel Dimension



Tape Specification (Units : mm)



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.

Feb 09,2011

XDSB2769 V2 Layout: Maggie L.



PACKING & LABEL SPECIFICATIONS

