

PRELIMINARY SPEC

Features

- PLCC-4 package.
- Single color.
- High luminance.
- High power, operating current @350mA.
- Suitable for all SMT assembly methods.
- Package : 300pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

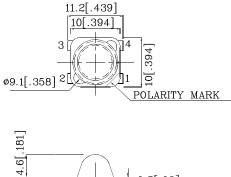


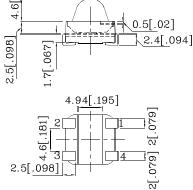
Outline Drawings



Applications

- Traffic signaling.
- Backlighting (illuminated advertising , general lighting).
- Interior and exterior automotive lighting.
- Substitution of micro incandescent lamps.
- Portable light source (e.g. bicycle flashlight).
- Signal and symbol luminaire for orientation.
- Marker lights (e.g. steps, exit ways, etc).
- Decorative and entertainment lighting .
- Indoor and outdoor commercial and residential architectural lighting.





Notes:

1. All dimensions are in millimeters (inches).

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- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

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Part Number: XZMDH95W-2

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Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=350mA) cd		Luminous Flux (IF=350mA) lm		Wavelength nm λ P	Viewing Angle 2 0 1/2 [2]
				min.	typ.	min.	typ.		
XZMDH95W-2	Reddish-Orange	InGaAlP	Water Clear	8	10	15	30	640	20°

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit	
Power Dissipation	Pt	1.2	W	
Reverse Voltage	VR	5	V	
Junction Temperature	TJ	110	°C	
Operating Temperature	Тор	-40 To +85	°C	
Storage Temperature	Tstg	-40 To +85	°C	
DC Forward Current[1]	IF	350	mA	
Peak Forward Current [3]	IFM	500	mA	
Thermal resistance [1]	Rth	60	°C/W	

Notes:

1. Results from mounting on PC board FR4(pad size \geq 100mm² per pad), mounted on pc board-metal core PCB is recommend for lowest thermal Resistance.

 $2.0 \ 1/2$ is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

3.1/10 Duty Cycle, 0.1ms Pulse Width.

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Value	Unit	
Wavelength of peak emission IF=350mA [Typ.]	λ peak	640	nm	
Dominant Wavelength IF=350mA [Typ.]	λ dom	625	nm	
Spectral bandwidth at 50% Φ REL MAX $$ IF=350mA [Typ.]	Δλ	30	nm	
Viewing angle at $50\% \Phi v$ [Typ.]	θ	20	0	
Forward Voltage IF=350mA [Min.]		2.0		
Forward Voltage IF=350mA [Typ.]	VF	2.5	V	
Forward Voltage IF=350mA [Max.]		3.0		
Reverse Current (VR=5V) [Max.]	Ir	10	μΑ	
Temperature coefficient of lpeak IF=350mA, -10°C≤ T≤100°C [Typ.]	TC λ peak	0.14	nm/°C	
Temperature coefficient of ldom IF=350mA, -10°C≤ T≤100°C [Typ.]	$\mathrm{TC}\lambda\mathrm{dom}$	0.12	nm/°C	
Temperature coefficient of VF IF=350mA, $-10^{\circ}C \le T \le 100^{\circ}C$ [Typ.]	TCv	-3.0	mV/°C	

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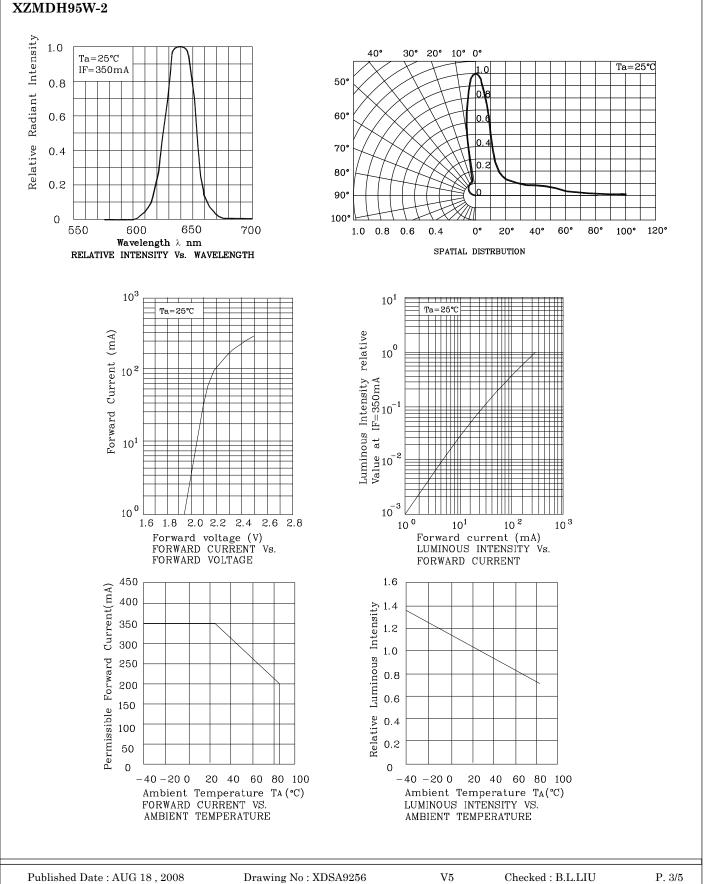
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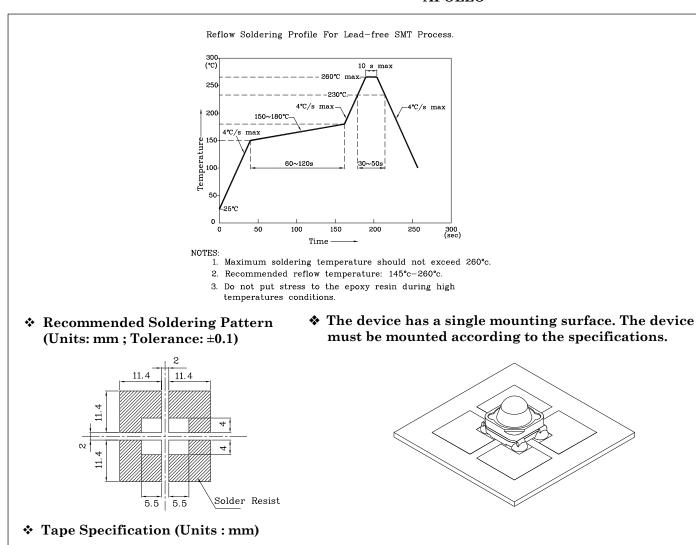


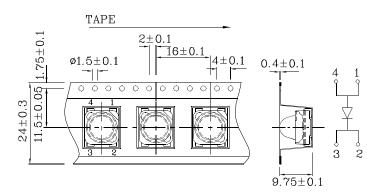
XZMDH95W-2 **Part Number:**

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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.

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