

Part Number: XZM2ACY45FW

3.5x2.8 mm PLCC2 SMD LED

PRELIMINARY SPEC

Features

- Single color.
- Suitable for all SMT assembly and solder process.
- Available on tape and reel.
- Ideal for backlighting.
- Package : 1500pcs / reel.
- Moisture sensitivity level : level 4.
- RoHS compliant.

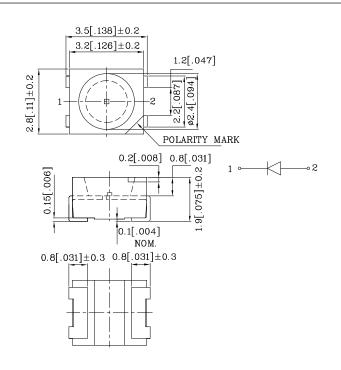




Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
- $3. \ {\rm Specifications}$ are subject to change without notice.

Absolute Maximum Rating (TA=25°C)	M2ACY (AlInGaP)	Unit	
Reverse Voltage	VR	5	V
Forward Current	IF	50	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	mA
Power Dissipation	Рт	125	mW
Operating Temperature	TA	-40 ~ +85	90
Storage Temperature	Tstg	-40 ~ +85	°C



Operating Characteristic (TA=25°C)	M2ACY (AlInGaP)	Unit	
Forward Voltage (Typ.) (IF=20mA)	$V_{\rm F}$	2.0	V
Forward Voltage (Max.) (IF=20mA)	$V_{\rm F}$	2.5	V
Reverse Current (Max.) (VR=5V)	IR	10	uA
Wavelength of Peak Emission (Typ.) (IF=20mA)	λΡ	590	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λ D	589	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	20	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	С	45	pF

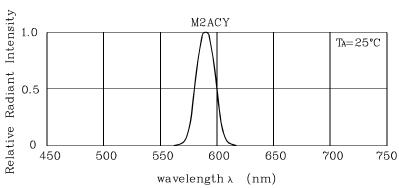
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm λ P	Viewing Angle 2 0 1/2
				min.	typ.		
XZM2ACY45FW	Yellow	AlInGaP	Water Clear	180	497	590	120°
Published Date : I	DEC 17,2008	Drawing	g No : XDSB2652	V1	Checl	ked : B.L.LIU	P.1/4



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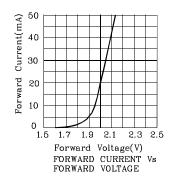
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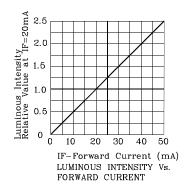


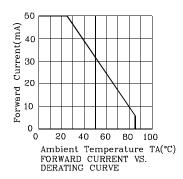


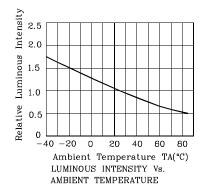
RELATIVE INTENSITY Vs. WAVELENGTH

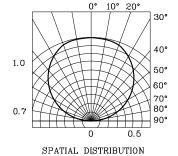
❖ M2ACY











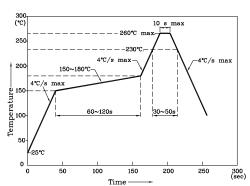
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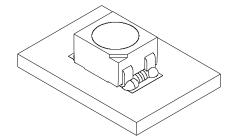
Reflow soldering is recommended and the soldering profile is shown below. Other soldering methods are not recommended as they might cause damage to the product.

Reflow Soldering Profile For Lead-free SMT Process.

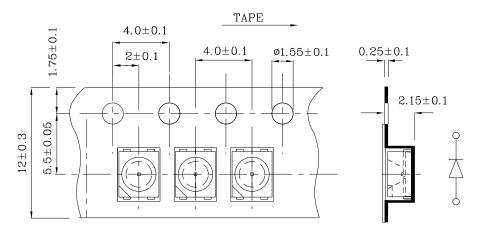


NOTES:

- Maximum soldering temperature should not exceed 260°c.
- 2. Recommended reflow temperature: 145°c-260°c.
- 3. Do not put stress to the epoxy resin during high temperatures conditions.
- ❖ Recommended Soldering Pattern (Units: mm; Tolerance: ±0.1)
 - 1.5 1.6 1.5
- ❖ The device has a single mounting surface. The device must be mounted according to the specifications.



❖ 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.



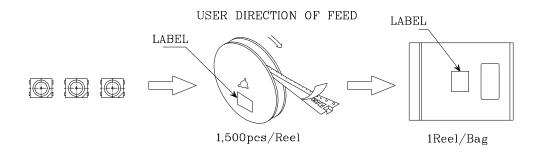


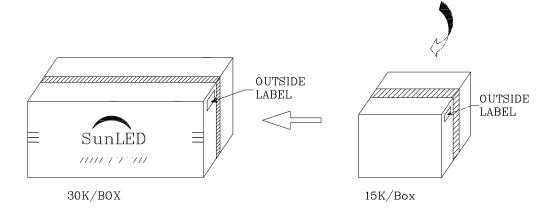
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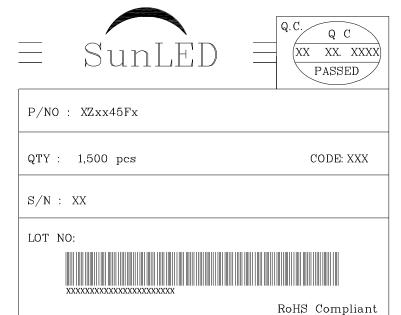


PACKING & LABEL SPECIFICATIONS

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