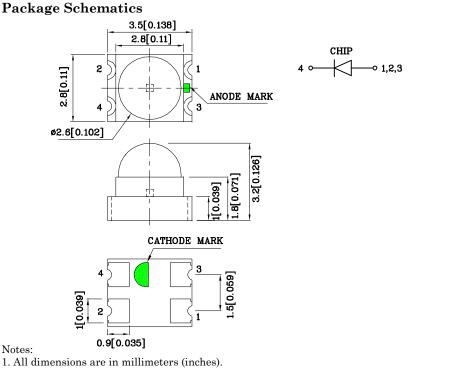


Part Number: ZM2ACY45W50MAV-6

3.5 x2.8mm SMD CHIP LED LAMP

- Ideal for indication light on hand held products
- Long life and robust package
- Variety of lens types and color choices available
- Package: 500pcs / reel
- Moisture sensitivity level : level 3
- RoHS compliant





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

3. Specifications are subject to change without notice.

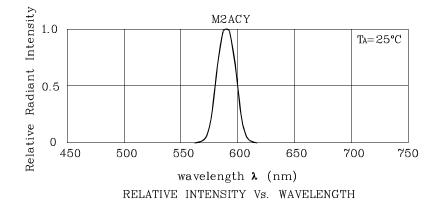
Absolute Maximum Ratings (T _A =25°C)		M2ACY (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	V	
Forward Current	\mathbf{I}_{F}	50	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	mA	
Power Dissipation	P_{D}	140	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	$-40 \sim +85$	-0	

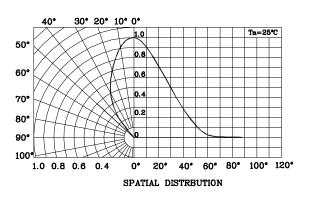
Operating Characteristics (T _A =25°C)		M2ACY (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =50mA)	$V_{\rm F}$	2.3	V	
Forward Voltage (Max.) (I _F =50mA)	V_{F}	2.8	V	
Reverse Current (Max.) (V _R =5V)	I_R	10	uA	
Wavelength of Peak Emission (Typ.) (I _F =50mA)	λP	590	nm	
Wavelength of Dominant Emission (Typ.) (I _F =50mA)	λD	589	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =50mA)	$ riangle\lambda$	20	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	$_{\rm pF}$	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength nm λP	Viewing Angle 20 1/2
				min.	typ.		
ZM2ACY45W50MAV-6	Yellow	AlGaInP	Water Clear	2500	4490	590	60°

SDSA8221 V1 Layout: Maggie L.







✤ M2ACY

50

40

30

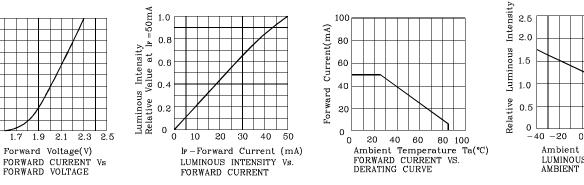
20

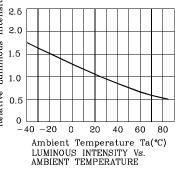
10

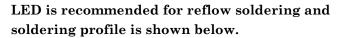
0

1.7

Forward Current(mA)







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

300 (°C) 10 s max 250 4°C/s °C/s max 200 150~180 4°C/s max 150 Temperature 30~50s 60~120: 100 50 0 150 0 50 100 200 250 300 (sec) Tim Notes:

1. Maximum soldering temperature should not exceed 260°C

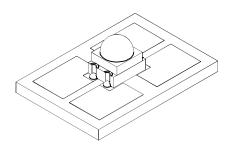
2. Recommended reflow temperature: 145°C-260°C З. Do not put stress to the epoxy resin during

high temperatures conditions

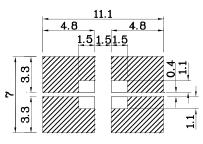




✤ The device has a single mounting surface. The device must be mounted according to the specifications.

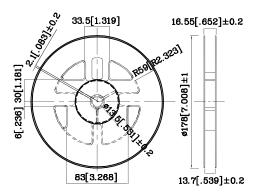


Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)

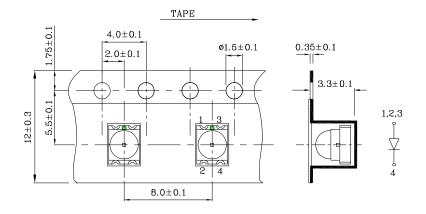


🛛 Solder resist

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.



PACKING & LABEL SPECIFICATIONS

