

1.6X0.8mm 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

ullet Package: 2000pcs / reel

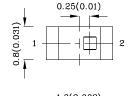
• Moisture sensitivity level : level 3

• RoHS compliant

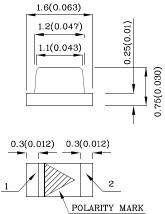




Package Schematics







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 Ratings (T _A =25°C)		M2ACY (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	V	
Forward Current	I_{F}	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	mA	
Power Dissipation	P_{D}	75	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85		

Operating Characteristics (T_A =25°C)		M2ACY (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2	V	
Forward Voltage (Max.) (I _F =20mA)	V_{F}	2.5	V	
Reverse Current (Max.) $(V_R=5V)$	${ m I}_{ m R}$	10	uA	
Wavelength of Peak Emission (Typ.) (I _F =20mA)	λΡ	590	nm	
Wavelength of Dominant Emission (Typ.) $(I_F=20\text{mA})$	λD	589	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$\triangle \lambda$	20	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	рF	

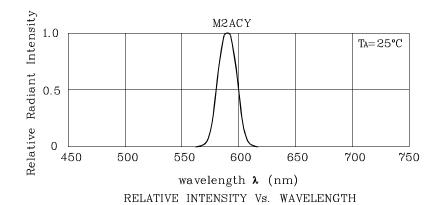
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength $nm \ \lambda P$	Viewing Angle 20 1/2
				min.	typ.		
ZM2ACY53W-1	Yellow	AlGaInP	Water Clear	250	397	590	120°

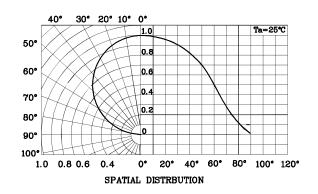
Apr 22,2011

SDSA8239 V1 Layout: Maggie L.

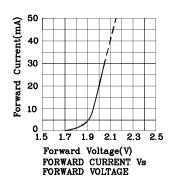


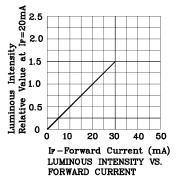


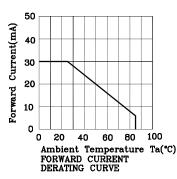


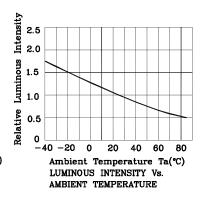


❖ M2ACY



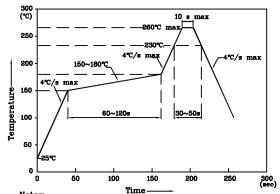






LED is recommended for reflow soldering and soldering profile is shown below.

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

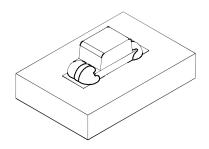


- Notes:
 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

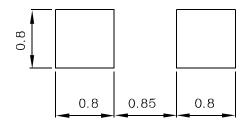




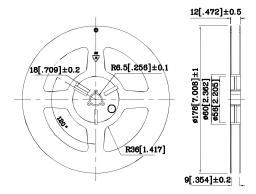
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



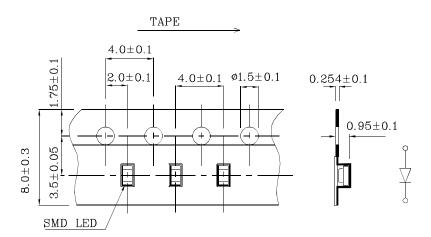
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)



❖ 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.





PACKING & LABEL SPECIFICATIONS

