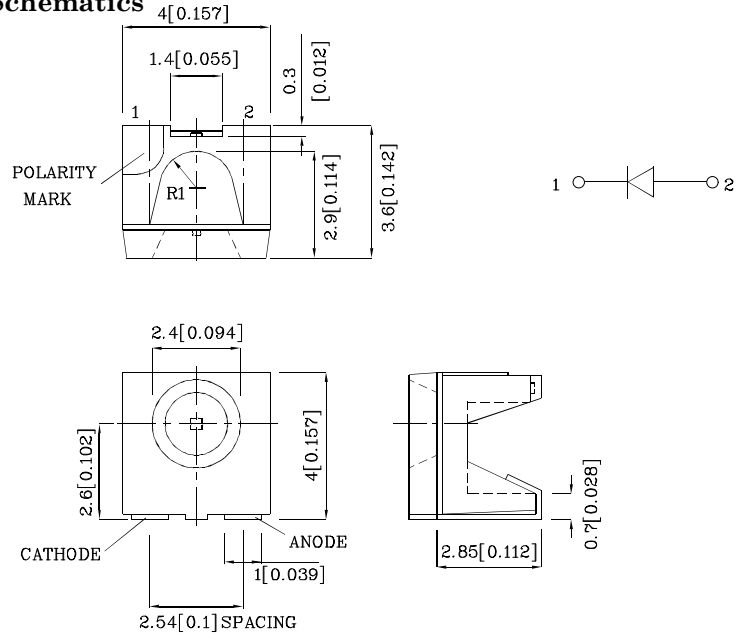# Features

- 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

Package Schematics

Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") 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	i$_{FS}$	140	mA
Power Dissipation	P$_D$	75	mW
Operating Temperature	T$_A$	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	°C

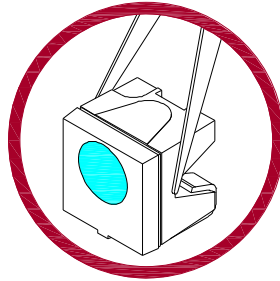| Operating Characteristics (T$_A$=25°C)		M2ACY (AlGaInP)	Unit
Forward Voltage (Typ.) (I$_F$=20mA)	V$_F$	2	V
Forward Voltage (Max.) (I$_F$=20mA)	V$_F$	2.5	V
Reverse Current (Max.) (V$_R$=5V)	I$_R$	10	uA
Wavelength of Peak Emission (Typ.) (I$_F$=20mA)	λP	590	nm
Wavelength of Dominant Emission (Typ.) (I$_F$=20mA)	λD	589	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I$_F$=20mA)	△λ	20	nm
Capacitance (Typ.) (V$_F$=0V, f=1MHz)	C	45	pF

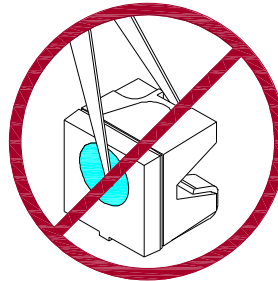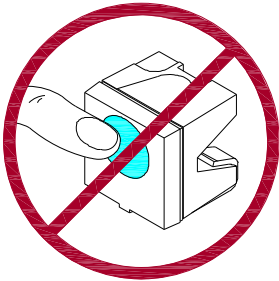| Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I$_F$=20mA) mcd		Wavelength nm λP	Viewing Angle 2θ 1/2
				min.	typ.		
ZM2ACY67S	Yellow	AlGaInP	Water Clear	400	597	590	120°

Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force.

As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.
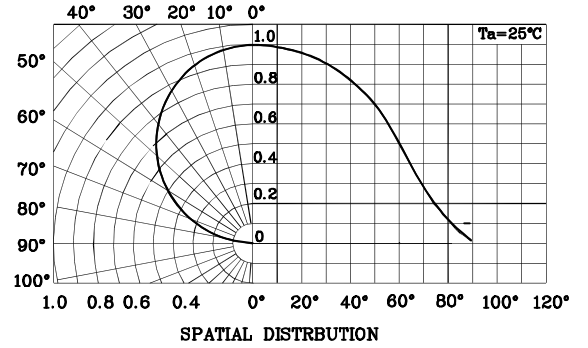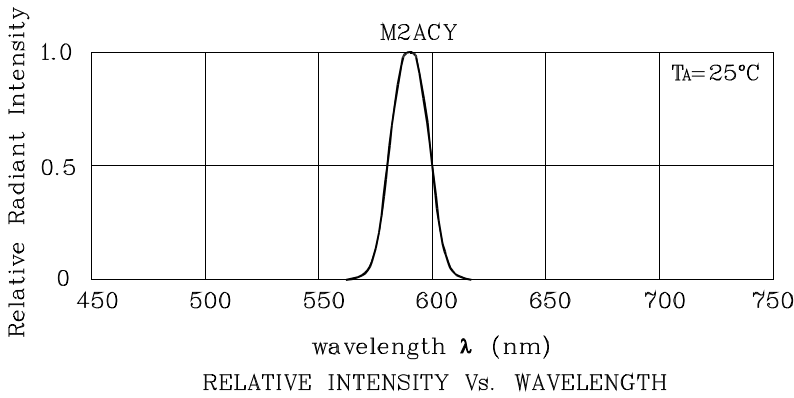
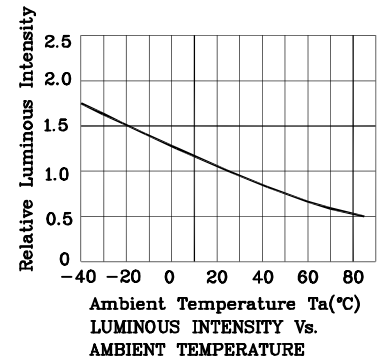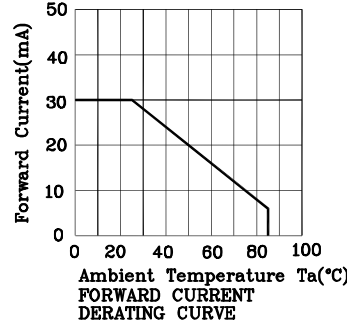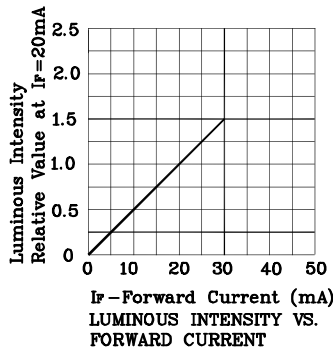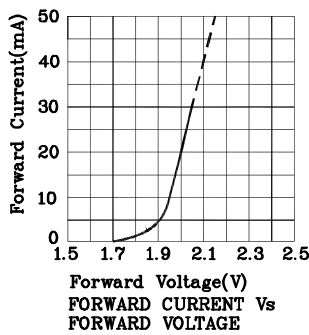1. Handle the component along the side surfaces by using forceps or appropriate tools.

2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

3. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.
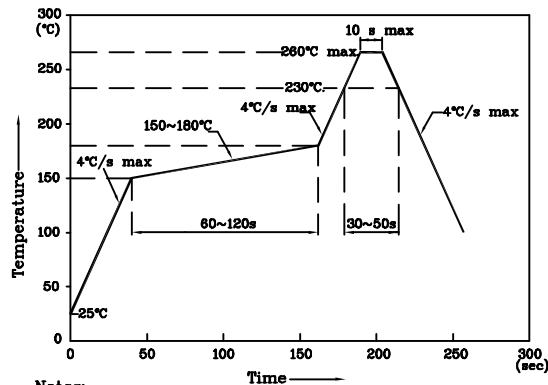
M2ACY

RELATIVE INTENSITY Vs. WAVELENGTH

SPATIAL DISTRBUTION

❖ **M2ACY**

FORWARD CURRENT Vs FORWARD VOLTAGE

LUMINOUS INTENSITY VS. FORWARD CURRENT

FORWARD CURRENT DERATING CURVE

LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE

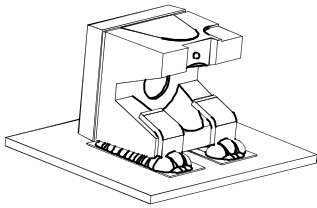**LED is recommended for reflow soldering and soldering profile is shown below.**

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

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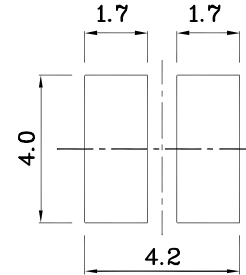1. Maximum soldering temperature should not exceed 260℃
2. Recommended reflow temperature: 145℃-260℃
3. Do not put stress to the epoxy resin during high temperatures conditions
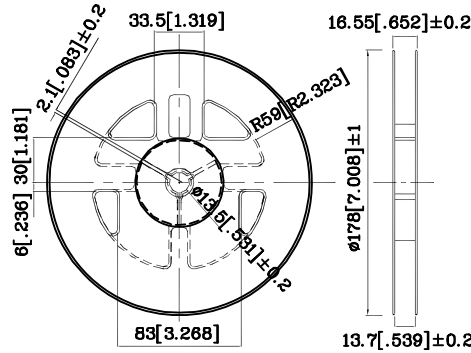
❖ **The device has a single mounting surface. The device must be mounted according to the specifications.**
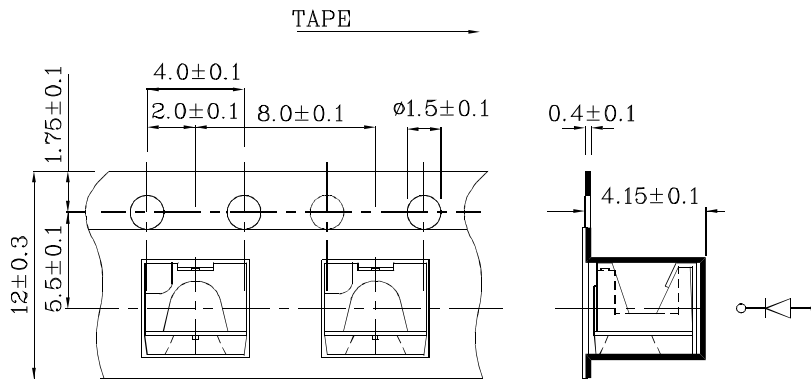
❖ **Recommended Soldering Pattern (Units : mm; Tolerance: ± 0.1)**
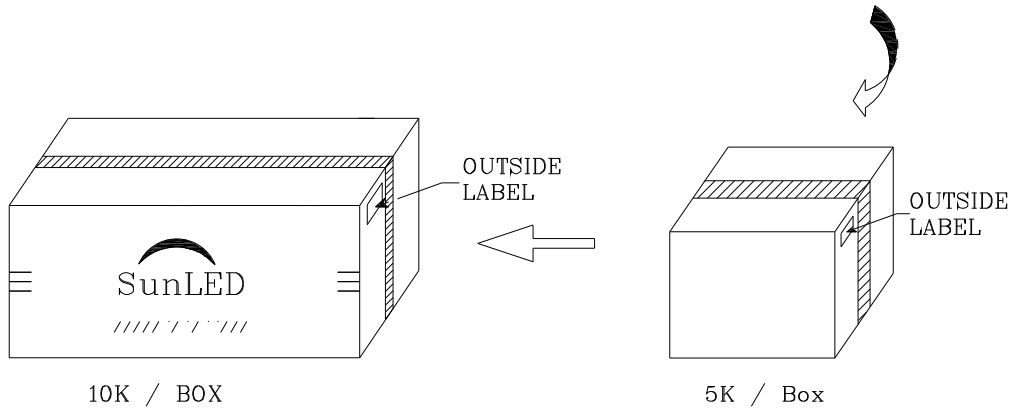

❖ **Reel Dimension**

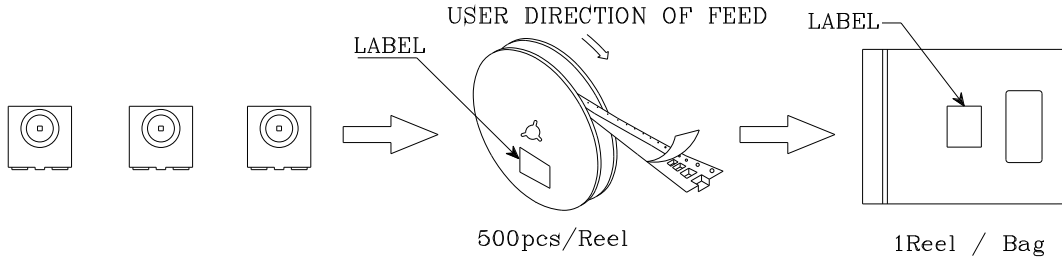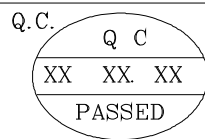

❖ **Tape Specification (Units : mm)**

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.

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PACKING & LABEL SPECIFICATIONS

USER DIRECTION OF FEED

LABEL

LABEL

500pcs/Reel

1Reel / Bag

OUTSIDE LABEL

SunLED

10K / BOX

OUTSIDE LABEL

5K / Box

SunLED

Q.C.

Q C

XX   XX. XX

PASSED

P/NO :Zxx67x

QTY :   500 pcs   CODE: XXX

S/N : XX

LOT NO:

XXXXXXXXXXXXXXXXXXXXX

RoHS Compliant