

Part Number: XZMYK81FS

2.8 x 0.8 mm Right Angle SMD Chip LED Lamp

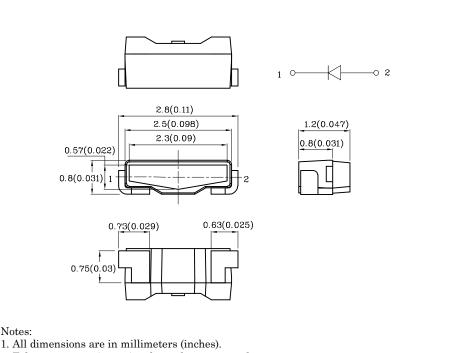
Features

- Ideal for indication light on hand held products
- Long life and robust package
- Standard Package: 2,000pcs/ Reel
- MSL (Moisture Sensitivity Level): 3
- Halogen-free
- RoHS compliant





Package Schematics



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)		Yellow (AlGaInP)	Unit	
Reverse Voltage	V_{R}	5	V	
Forward Current	$I_{\rm F}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	175	mA	
Power Dissipation	\mathbf{P}_{D}	75	mW	
Operating Temperature	TA	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85	-0	

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Operating Characteristics (T _A =25°C)		Yellow (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	2	V	
Forward Voltage (Max.) (I _F =20mA)	$V_{\rm F}$	2.5	V	
Reverse Current (Max.) (V _R =5V)	I_R	10	μА	
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =20mA)	λР	590*	nm	
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =20mA)	λD	590*	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle\lambda$	20	nm	
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	20	pF	

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity CIE127-2007* (I _F =20mA) mcd		Wavelength CIE127-2007* nm λP	Viewing Angle 20 1/2
				min.	typ.		
XZMYK81FS	Yellow	AlGaInP	Water Clear	120*	198*	590*	110°

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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Handling Precautions

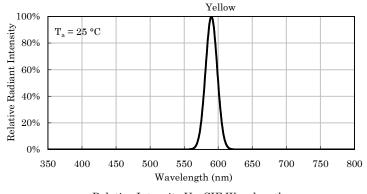
Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

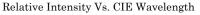
1.Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

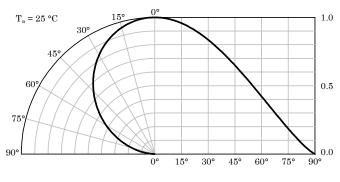


2. As silicone encapsulation is permeable to gases, some corrosive substances such as H_2S might corrode silver plating of leadframe. Special care should be taken if an LED with silicone encapsulation is to be used near such substances.



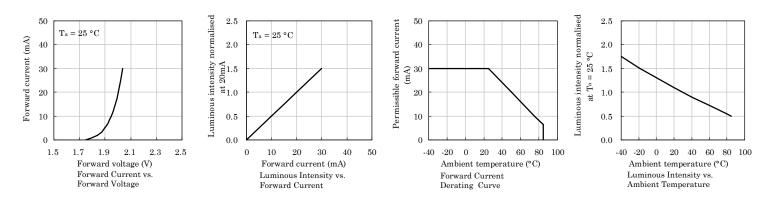




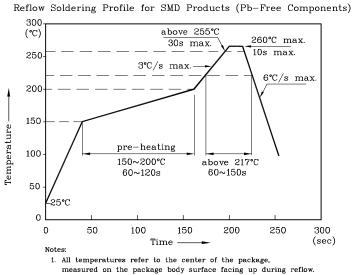


Spatial Distribution

♦ Yellow



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



2. Do not apply any stress to the LED during high temperature conditions 3. Maximum number of soldering passes: 2

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1.4

0.5

0.9 0.2

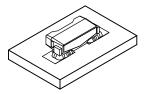
✤ The device has a single mounting surface. The device must be mounted according to the specifications.

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

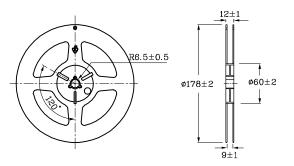
1.4

0.5

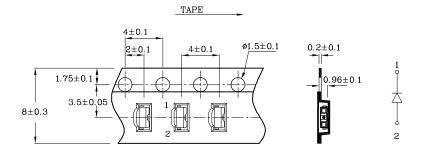
0.9



Reel Dimension (Units : mm)



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%

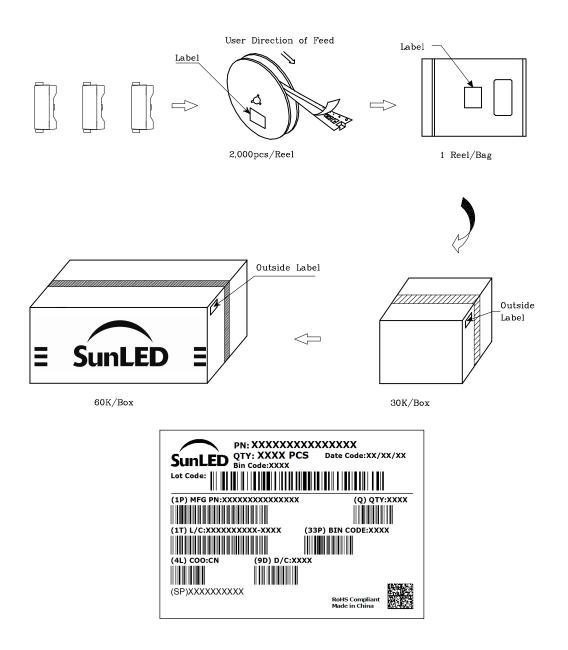
3. Forward Voltage: +/-0.1V $\,$

Note: Accuracy may depend on the sorting parameters.

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PACKING & LABEL SPECIFICATIONS



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