

Part Number: XZFMG07A

SURFACE MOUNT DISPLAY

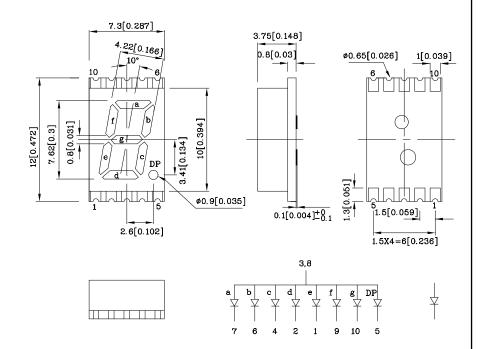
Features

- 0.3 inch digit height
- Robust package
- Low power consumption
- \bullet Standard configuration: Gray face w/ white segments
- Standard Package: 550pcs/ Reel
- MSL (Moisture Sensitivity Level): 2a
- RoHS Compliant





Package Schematics



Notes:

- 1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25 (0.01")$ unless otherwise noted.
- 2. Specifications are subject to change without notice.
- 3. The gap between the reflector and PCB shall not exceed 0.25mm.

Absolute Maximum Ratings (T _A =25°C)		Green (GaP)	Unit
Reverse Voltage	V_{R}	5	V
Forward Current	I_{F}	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	140	mA
Power Dissipation	P_{D}	62.5	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	C

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)		Green (GaP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	2	V
Forward Voltage (Max.) (I _F =10mA)	V_{F}	2.4	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	μА
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λΡ	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	Δλ	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	pF

Part Number	Emitting Color	Emitting Material	CIE127-2007* (I _F =10mA) ucd		Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XZFMG07A	Green	GaP	1400	3490	565*	Common Anode, Rt.

560*

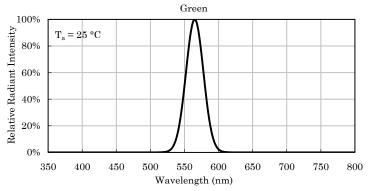
1190*

Hand Decimal.

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Feb 22,2019

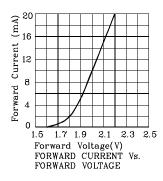


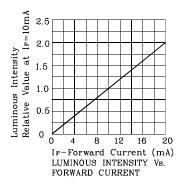


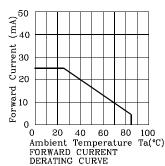


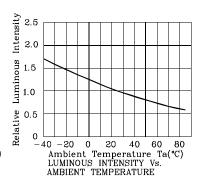
Relative Intensity Vs. CIE Wavelength

♦ Green



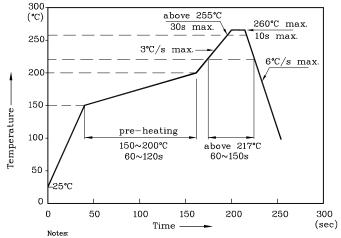






LED is recommended for reflow soldering and soldering profile is shown below.

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



- 1. All temperatures refer to the center of the package,
- measured on the package body surface facing up during reflow.

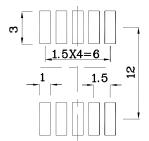
 2. Do not apply any stress to the LED during high temperature conditions.

 3. Maximum number of soldering passes: 2

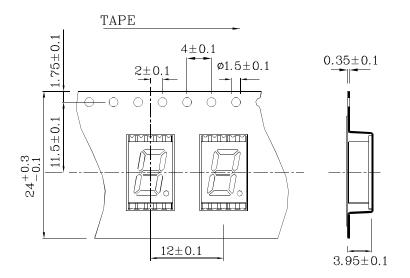




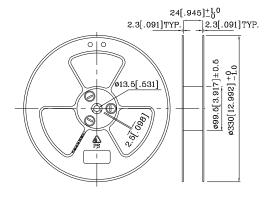
♦ Recommended Soldering Pattern (Units: mm; Tolerance: ±0.15)



❖ Tape Specification (Units:mm)



❖ Reel Dimension



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:

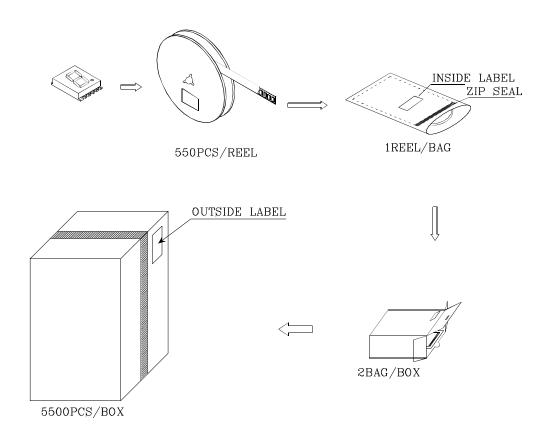
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

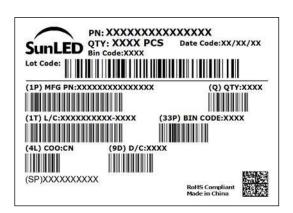
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
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- 7. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp