

Part Number: XZFMDK10C

Surface Mount Display

Features

- 0.4 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- \bullet Standard Package: 400pcs/ Reel
- \bullet MSL (Moisture Sensitivity Level): 2a
- RoHS compliant



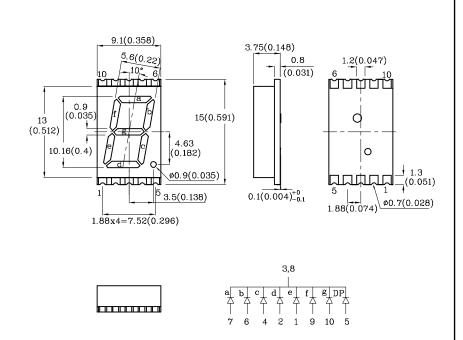




ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE

DEVICES

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)	Red (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}	185	mA
Power Dissipation	P_{D}	75	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)

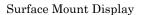
Operating Characteristics (T _A =25°C)	Red (AlGaInP)	Unit	
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	1.85	V
Forward Voltage (Max.) (I _F =10mA)	V_{F}	2.35	V
Reverse Current (Max.) (V _R =5V)	I_R	10	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λΡ	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	Δλ	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	35	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (I _F =10mA) ucd		Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XZFMDK10C	Red	AlGaInP	21000 9000*	53990 19990*	645*	Common Cathode, Rt.Hand Decimal.

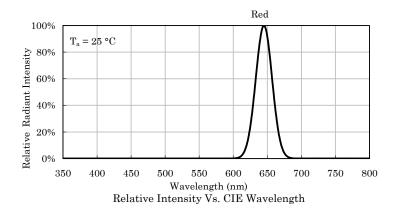
^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

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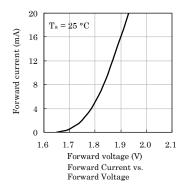


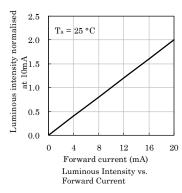


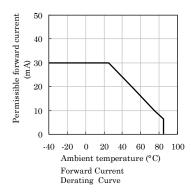


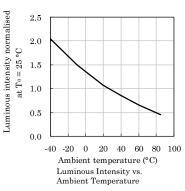


❖ Red



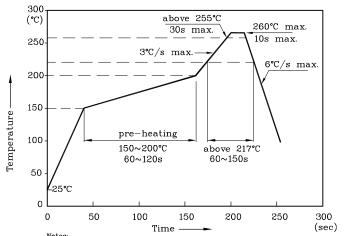






LED is recommended for reflow soldering and soldering profile is shown below.

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.

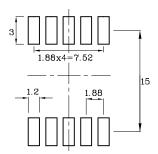
 2. Do not apply any stress to the LED during high temperature conditions.

 3. Maximum number of soldering passes: 2

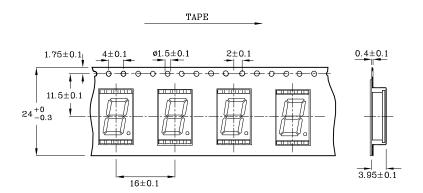
SunLED

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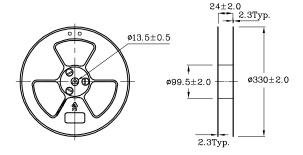
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ±0.15)



❖ Tape Specification (Units:mm)



❖ Reel Dimension (Units:mm)



Remarks

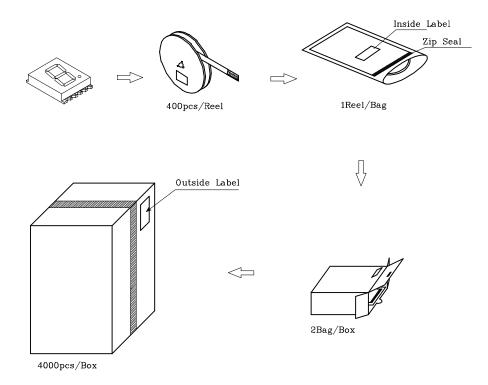
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

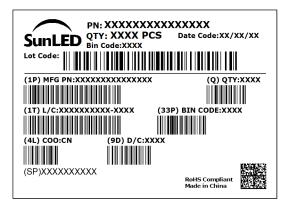
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: \pm -0.1V

Note: Accuracy may depend on the sorting parameters.

Surface Mount Display

PACKING & LABEL SPECIFICATIONS





TERMS OF USE

Mar 06,2023

- 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.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The performance of the product(s) should be evaluated and verified by the customer to ensure it can meet the customer's application requirements.
- 6. The contents within this document may not be altered without prior consent by SunLED.
- 7. When any special process such as potting is required for LED assembly, please consult with SunLED representative before proceeding.
- 8. Additional technical notes are available at https://www.SunLEDusa.com/TechnicalNotes.asp