SunLED
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Part Number: XZFVG10A

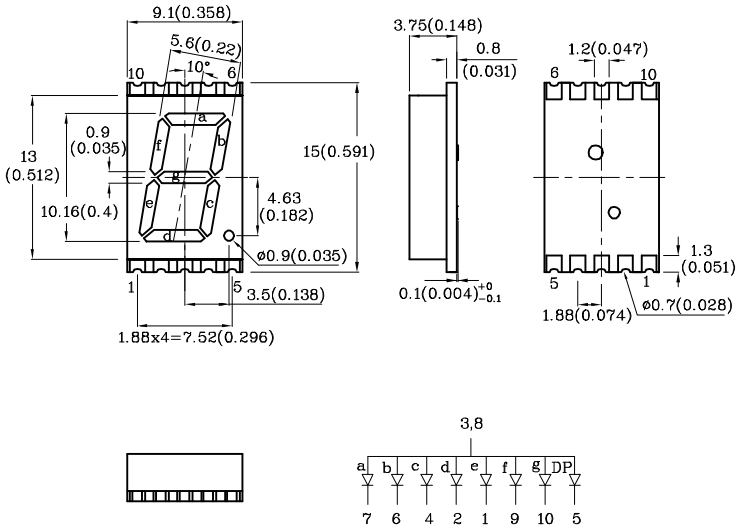
Surface Mount Display

Features

- 0.4 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 400pcs/ Reel
- 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 ±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 (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}	150	mA
Power Dissipation	P_D	75	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	

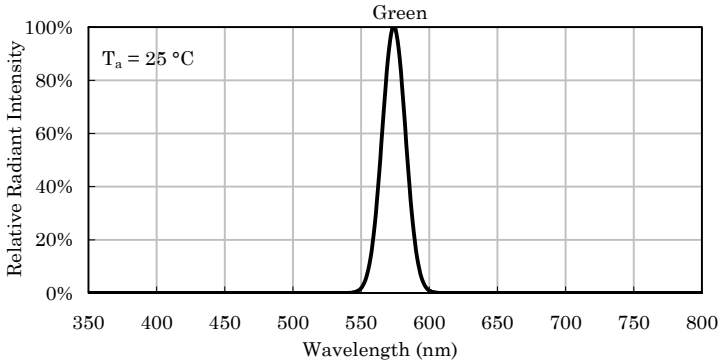
A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

Operating Characteristics (T_A=25°C)		**Green (AlGaInP)**	**Unit**
Forward Voltage (Typ.) (I_F=10mA)	V_F	2	V
Forward Voltage (Max.) (I_F=10mA)	V_F	2.45	V
Reverse Current (Max.) (V_R=5V)	I_R	10	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I_F=10mA)	λP	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I_F=10mA)	λD	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I_F=10mA)	Δλ	20	nm
Capacitance (Typ.) (V_F=0V, f=1MHz)	C	15	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (I_F=10mA) ucd min.	Luminous Intensity CIE127-2007* (I_F=10mA) ucd typ.	Wavelength CIE127-2007* nm λP	Description
XZFVG10A	Green	AlGaInP	5600 2200*	10990 4090*	574*	Common Anode, Rt. Hand Decimal.

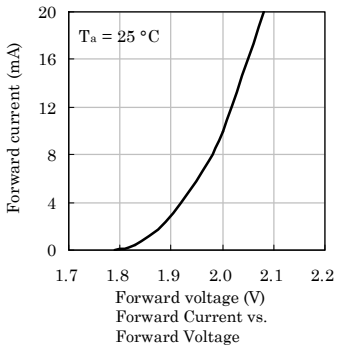
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Mar 06,2023 XDSA9134 V11-X Layout: Maggie L.

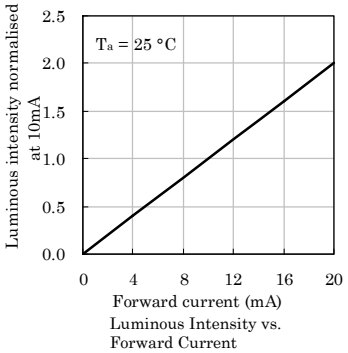


Relative Intensity Vs. CIE Wavelength

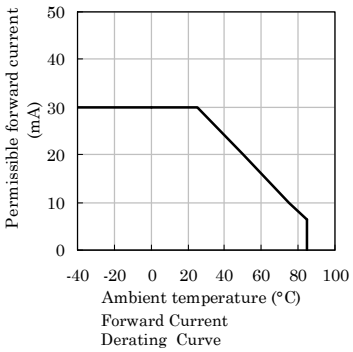
❖ Green



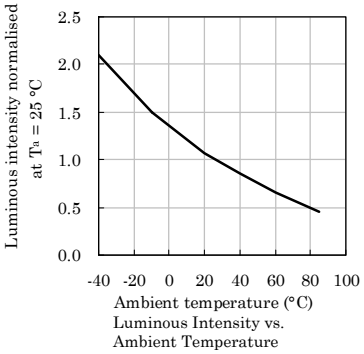
Forward Current vs.
Forward Voltage



Luminous Intensity vs.
Forward Current

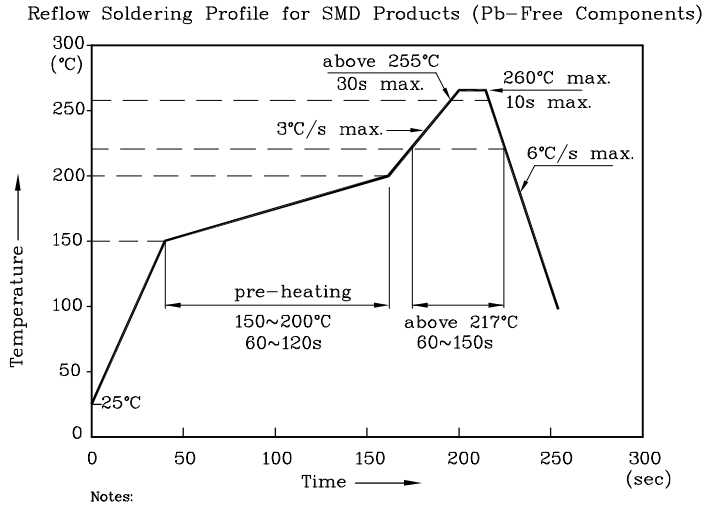


Forward Current
Derating Curve



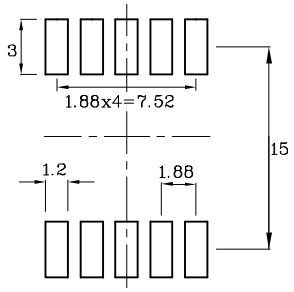
Luminous Intensity vs.
Ambient Temperature

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

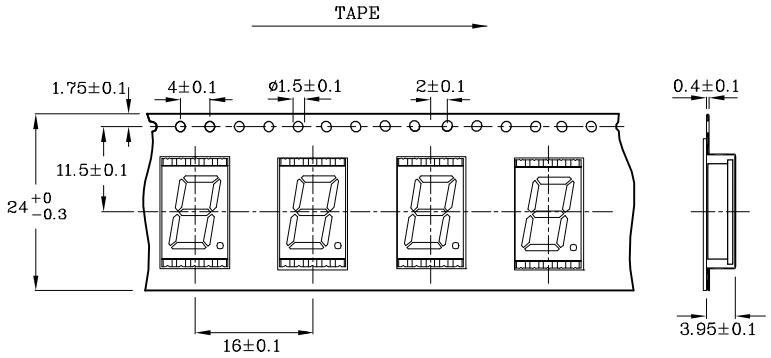


Notes:
1. All temperatures refer to the center of the package, measured on the package body surface facing up during reflow.
2. Do not apply any stress to the LED during high temperature conditions.
3. Maximum number of soldering passes: 2

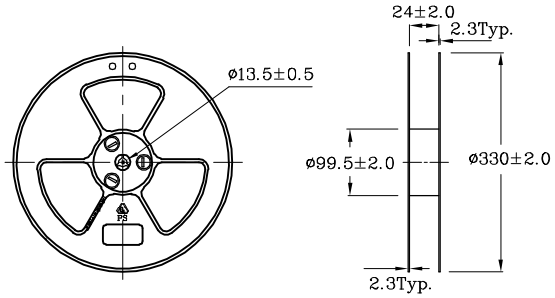
❖ Recommended Soldering Pattern (Units : mm; Tolerance: ±0.15)



❖ Tape Specification (Units : mm)



❖ Reel Dimension (Units : mm)



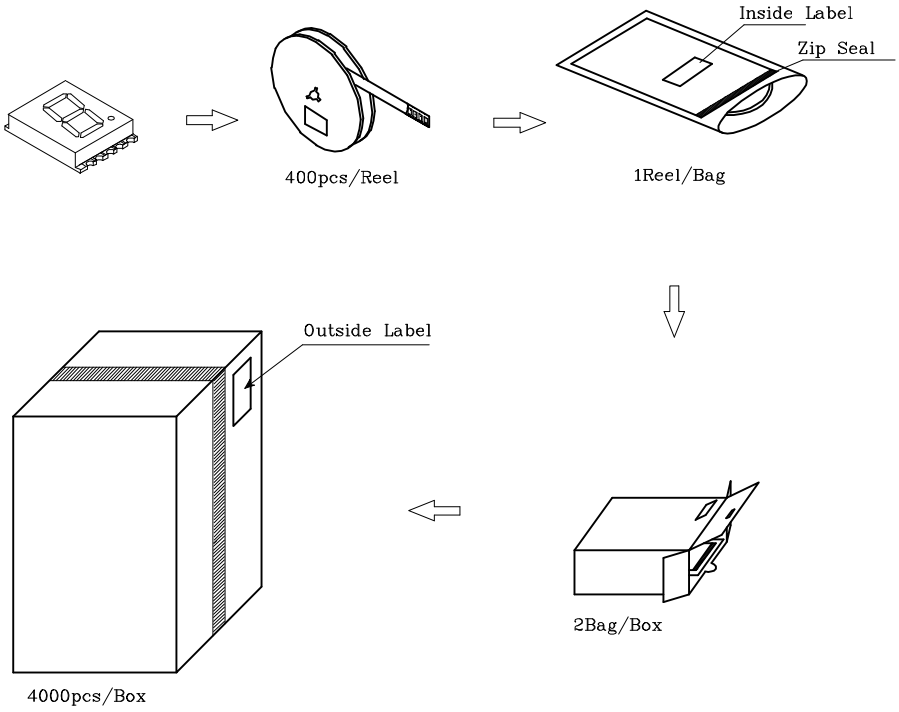
Remarks:

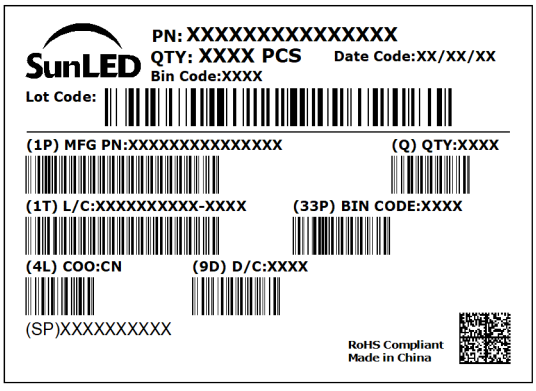
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

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





TERMS OF USE

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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.
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