

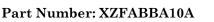
Features

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

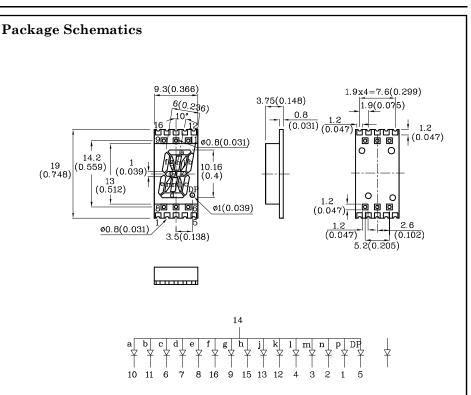




ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



Surface Mount Display



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)		Blue (InGaN)	Unit
Reverse Voltage	V_{R}	5	V
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	100	mA
Power Dissipation	\mathbf{P}_{D}	120	mW
Operating Temperature	TA	$-40 \sim +85$	°C
Storage Temperature	Tstg	$-40 \sim +85$	
Electrostatic Discharge Threshold (HBM)		1000	V

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)

Part

Number

Operating Characteristics (T _A =25°C)		Blue (InGaN)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	3.05	V
Forward Voltage (Max.) (I _F =10mA)	V_{F}	3.4	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	μΑ
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λP	468*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	465*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$ riangle\lambda$	21	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	100	$_{\rm pF}$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	k	Description	
min. typ.			

 min.
 typ.

 XZFABBA10A
 Blue
 InGaN
 1400*
 3090*
 468*
 Common Anode, Rt.Hand Decimal.

Emitting

Material

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Dec 09,2020

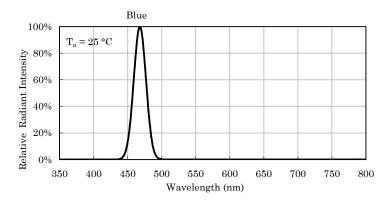
Emitting

Color

XDSB1636 V10-Z Layout: Maggie L.

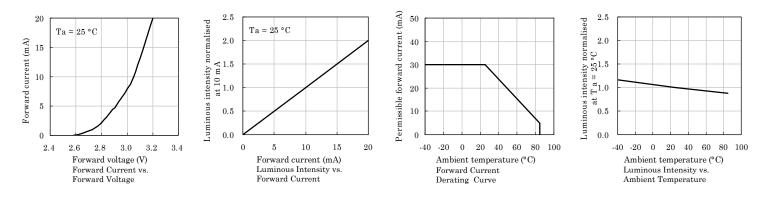


Surface Mount Display

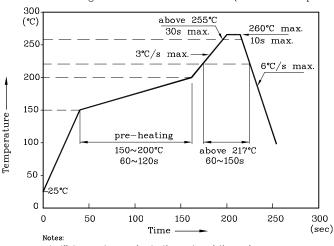


Relative Intensity Vs. CIE Wavelength

Blue



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



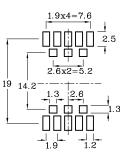
Reflow Soldering Profile for SMD Products (Pb-Free Components)

1. All temperatures refer to the center of the package,

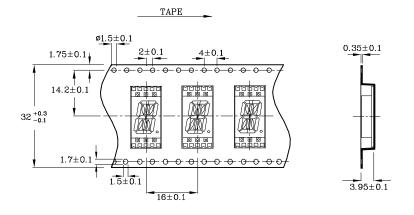
measured on the package body surface facing up during reflow. 2. Do not apply any stress to the LED during high temperature conditions. 3. Maximum number of soldering passes: 2



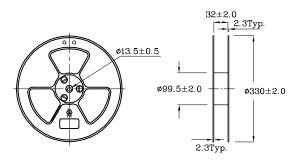
Recommended Soldering Pattern (Units : mm; Tolerance: ±0.15)



Tape Specification (Units : mm)



Reel Dimension (Units : mm)



Remarks:

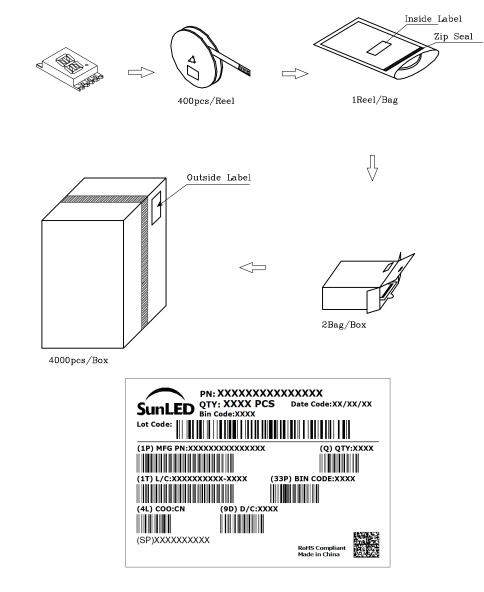
If special sorting is required (e.g. binning based on forward voltage, Luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

- 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

- 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 contents within this document may not be altered without prior consent by SunLED.
- 6.When any special process such as potting is required for LED assembly, please consult with SunLED representative before proceeding.
- $7. Additional technical notes are available at \underline{https://www.SunLEDusa.com/TechnicalNotes.asp}$