

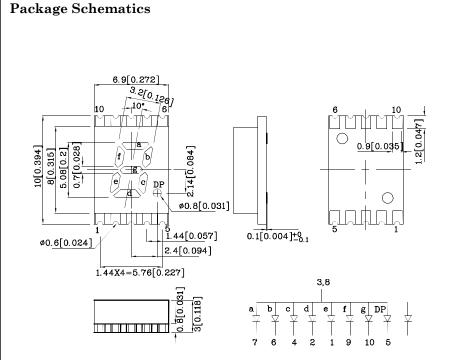
Part Number: XZFBBA05A

SURFACE MOUNT DISPLAY

Features

- $\bullet~0.2$ inch digit height
- \bullet Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 650pcs/ Reel
- MSL (Moisture Sensitivity Level): 2a
- RoHS compliant







ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE

SENSITIVE

DEVICES

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.

 $3. The gap between the reflector and PCB shall not exceed <math display="inline">0.25 {\rm mm}.$

Absolute Maximum Ratings (T _A =25°C)		Blue (InGaN)	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	$i_{\rm FS}$	100	mA
Power Dissipation	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

XZFBBA05A

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}	4	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	uA
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	$_{ m pF}$
$\begin{array}{llllllllllllllllllllllllllllllllllll$		Description	
min. typ.			
2200* 4290* 468*		Common Anode, I Hand Decimal.	Rt.

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Oct 12.2016

Emitting

Color

Blue

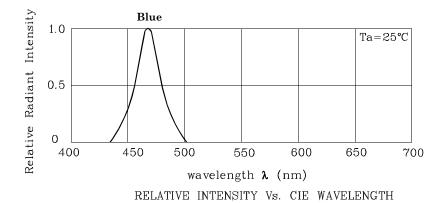
Emitting

Material

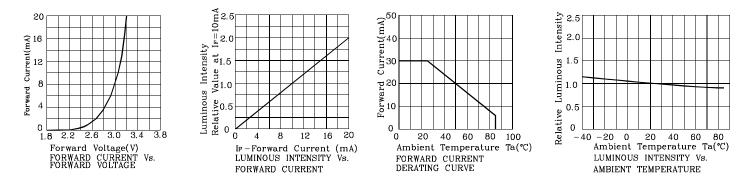
InGaN

XDSA9197 V9-Z Layout: Maggie L.



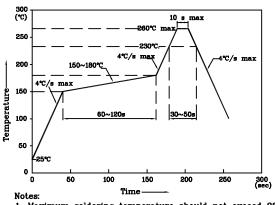


✤ Blue



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

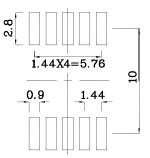
Reflow Soldering Profile for SMD Products (Pb-Free Components)



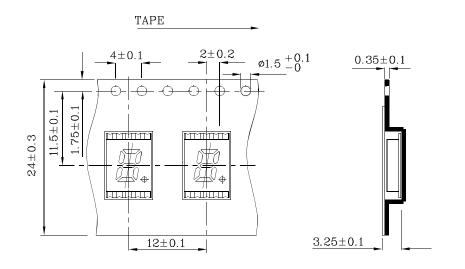
- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C 3. Do not put stress to the epoxy resin during
- high temperatures conditions



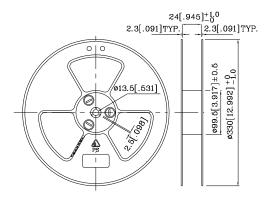
Recommended Soldering Pattern (Units : mm; Tolerance: ±0.15)



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

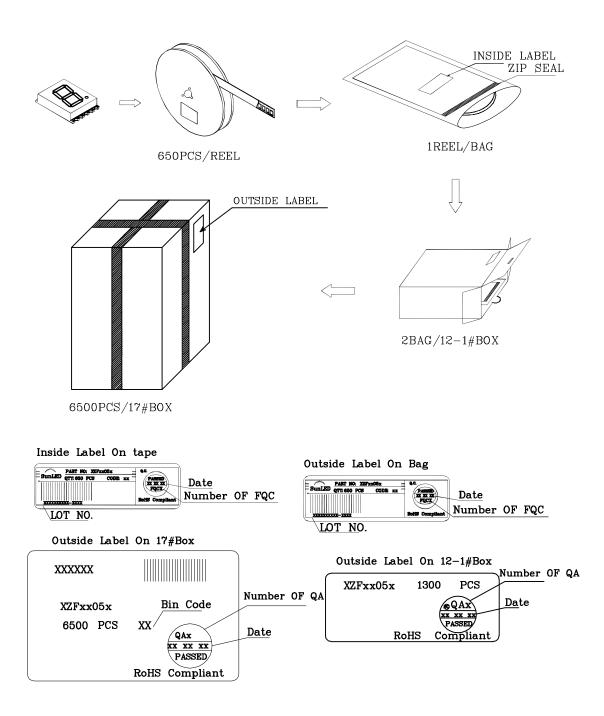
2. Luminous intensity / luminous flux: +/-15%

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.
- 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. Additional technical notes are available at <u>http://www.SunLEDusa.com/TechnicalNotes.asp</u>