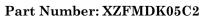


Features

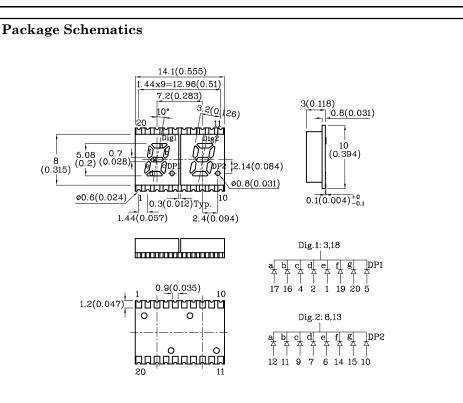
- 0.2 inch digit height
- Robust package
- \bullet Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 300pcs/ Reel
- MSL (Moisture Sensitivity Level): 2a
- RoHS Compliant



ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES



Surface Mount Display





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)		Red (AlGaInP)	Unit
Reverse Voltage	V_{R}	5	V
Forward Current	\mathbf{I}_{F}	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\rm FS}$	185	mA
Power Dissipation	\mathbf{P}_{D}	75	mW
Operating Temperature	TA	$-40 \sim +85$	°C
Storage Temperature	Tstg	$-40 \sim +85$	÷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)

Part

Number

XZFMDK05C2

Operating Characteristics (T _A =25°C)		Red (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	$V_{\rm F}$	1.85	V
Forward Voltage (Max.) (I _F =10mA)	$V_{\rm F}$	2.35	V
Reverse Current (Max.) $(V_R=5V)$	I_R	10	μΑ
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λP	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)	$ riangle\lambda$	28	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	35	pF
$\begin{array}{llllllllllllllllllllllllllllllllllll$	ŧ	Description	
min. typ.			
14000 29990 645* 3600* 8090* 645*		Common Cathode Rt.Hand Decimal	

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Mar 06.2023

Emitting

Color

Red

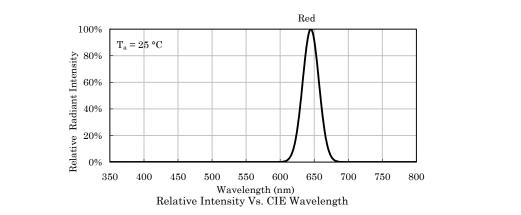
Emitting

Material

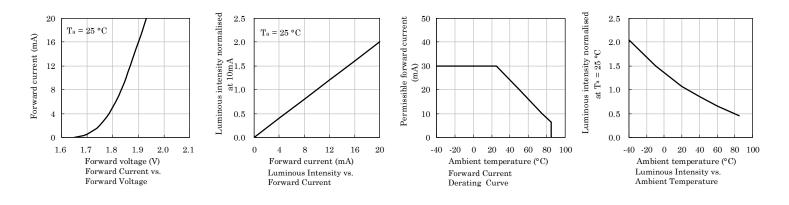
AlGaInP

XDSA9215 V11-X Layout: Maggie L.

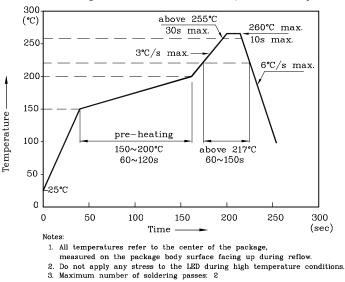




✤ Red



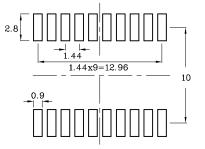
LED is recommended for reflow soldering and soldering profile is shown below.



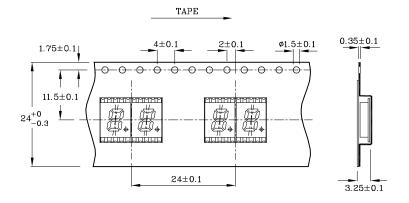
Reflow Soldering Profile for SMD Products (Pb-Free Components)



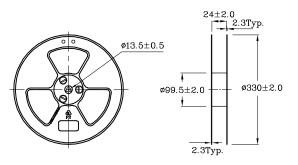
Recommended Soldering Pattern (Units : mm; Tolerance: ±0.15)



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

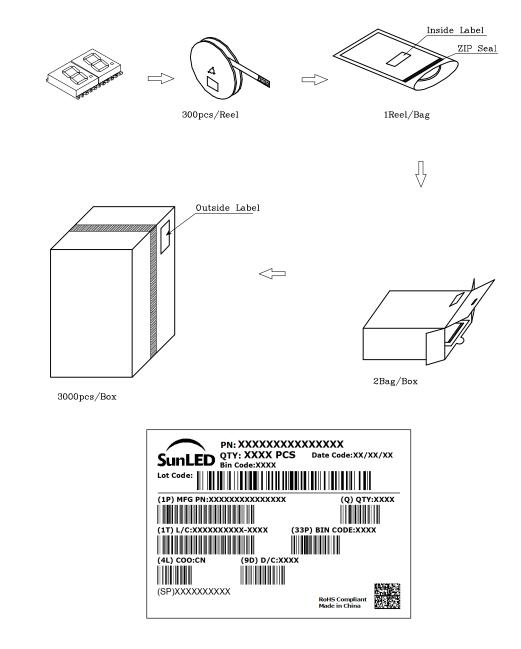
2. Luminous intensity / luminous flux: +/-15\%

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
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not remain 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 <u>https://www.SunLEDusa.com/TechnicalNotes.asp</u>