# **Excellent Integrated System Limited**

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

SunLED XZFMDK14C

For any questions, you can email us directly: <a href="mailto:sales@integrated-circuit.com">sales@integrated-circuit.com</a>



# Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XZFMDK14C - DISPLAY 0.56" 1DIGIT RED CC SMD

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



Part Number: XZFMDK14C

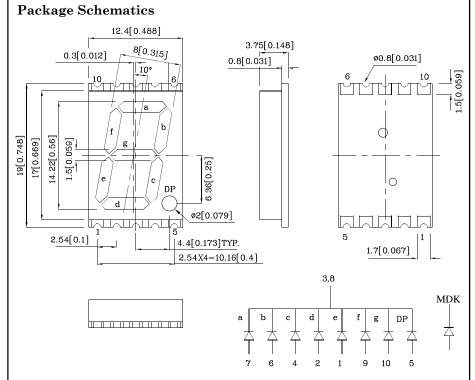
SURFACE MOUNT DISPLAY

#### **Features**

- 0.56 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







#### 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 <sub>A</sub> =25°C)		MDK (AlGaInP)	Unit
Reverse Voltage	$V_{\mathrm{R}}$	5	V
Forward Current	$I_{\mathrm{F}}$	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	$i_{\mathrm{FS}}$	185	mA
Power Dissipation	$P_{D}$	75	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	C

Operating Characteristics (T <sub>A</sub> =25°C)	MDK (AlGaInP)	Unit	
Forward Voltage (Typ.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	1.85	V
Forward Voltage (Max.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	2.5	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λΡ	645*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λD	630*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	$\triangle \lambda$	28	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	35	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensis CIE127-2007* (I <sub>F</sub> =10mA) ucd	ty Wavelength CIE127-2007* nm λΡ	Description
			min. typ.		
XZFMDK14C	Red	AlGaInP	21000 43990 5600* 13990	6/15*	Common Cathode,Rt. Hand Decimal.

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

Jan 13,2014



## **Distributor of SunLED: Excellent Integrated System Limited**

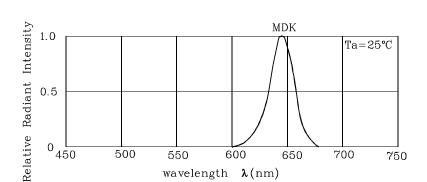
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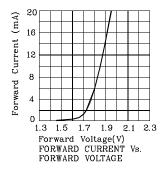
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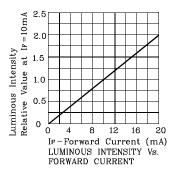


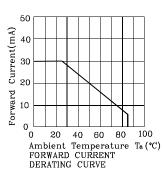
RELATIVE INTENSITY Vs. CIE WAVELENGTH

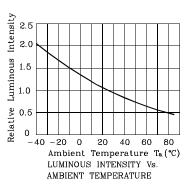
wavelength  $\lambda$ (nm)

#### **♦** MDK



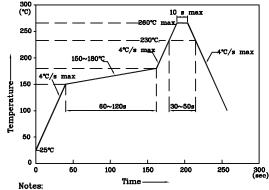






LED is recommended for reflow soldering and soldering profile is shown below.

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



- 1. Maximum soldering temperature should not exceed 260°C 2. Recommended reflow temperature 145°C 2000 Recommended reflow temperature: 145°C-260°C
- Do not put stress to the epoxy resin during
- high temperatures conditions



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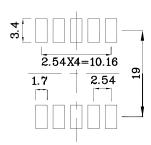
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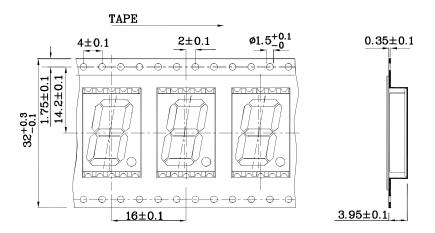
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SURFACE MOUNT DISPLAY

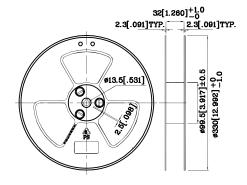
#### **❖** Recommended Soldering Pattern (Units:mm; Tolerance: ±0.15)



### ❖ 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.



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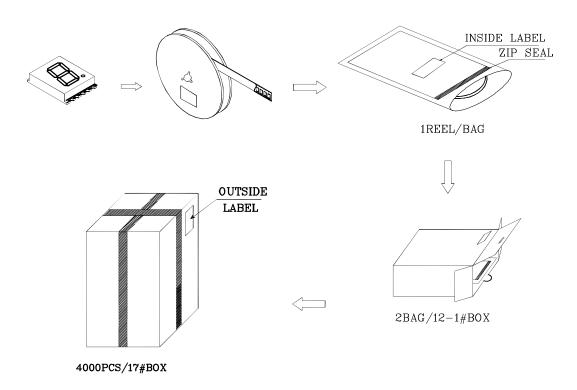
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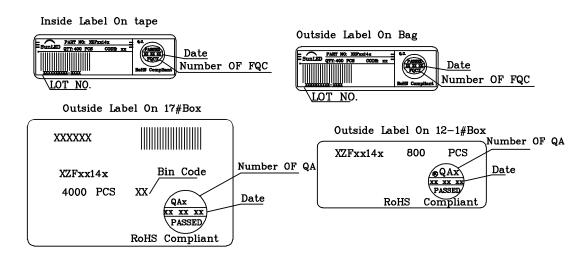


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SURFACE MOUNT DISPLAY

#### PACKING & LABEL SPECIFICATIONS





#### TERMS OF USE

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- 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.
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