

Part Number: XZFDGK14C

SURFACE MOUNT DISPLAY

DGK

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DP

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Features

- 0.56 inch digit height
- Robust package
- Low power consumption
- Standard configuration: Gray face w/ white segments
- Standard Package: 400pcs/ ReelMSL (Moisture Sensitivity Level): 2a
- RoHS compliant

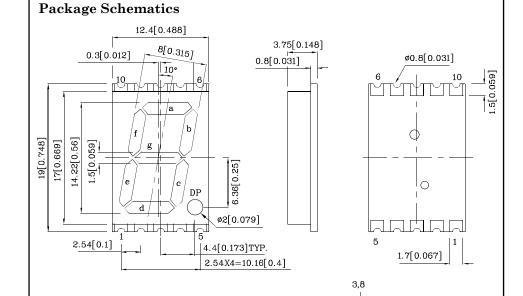






ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC

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 0.25mm.

Absolute Maximum Ratings (T_A =25°C)		DGK (InGaN)	Unit	
Reverse Voltage	V_{R}	5	V	
Forward Current	I_{F}	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	150	mA	
Power Dissipation	P_{D}	102.5	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85		
Electrostatic Discharge Threshold (HBM)		450	V	

Operating Characteristics (T _A =25°C)		DGK (InGaN)	Unit
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	3	V
Forward Voltage (Max.) (I _F =10mA)	V_{F}	4	V
Reverse Current (Max.) (V _R =5V)	I_{R}	50	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λΡ	515*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	λD 525*	
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$\triangle \lambda$	35	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	45	pF

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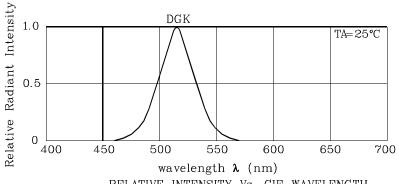
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Part Number	Emitting Color	Emitting Material	CIE127-2007* (I _F =10mA) ucd	Wavelength CIE127-2007* nm λP	Description
			min. typ.		
XZFDGK14C	Green	InGaN	52000 159990 21000* 50990*	515*	Common Cathode, Rt. Hand Decimal.

^{*}Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Jan 10.2014

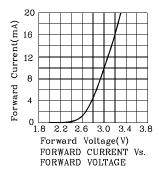


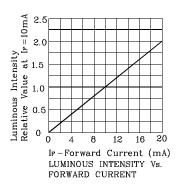


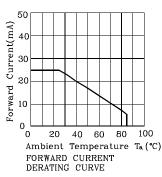


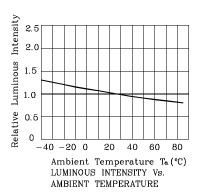
RELATIVE INTENSITY Vs. CIE WAVELENGTH

❖ DGK



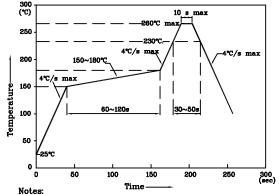






LED is recommended for reflow soldering and soldering profile is shown below.

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

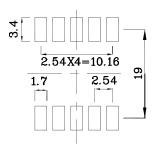


- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

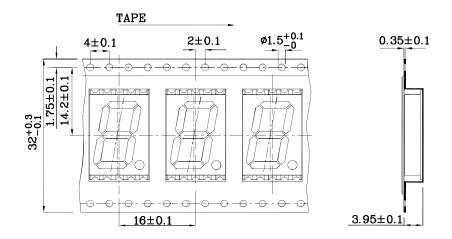




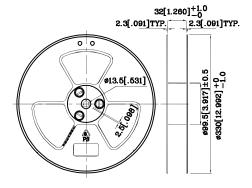
❖ Recommended Soldering Pattern (Units: mm; Tolerance: ±0.15)



❖ 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:

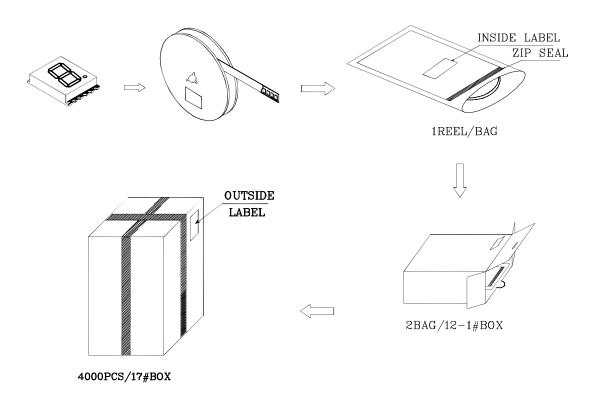
- 1. Wavelength: +/-1nm
- 2. Luminous intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

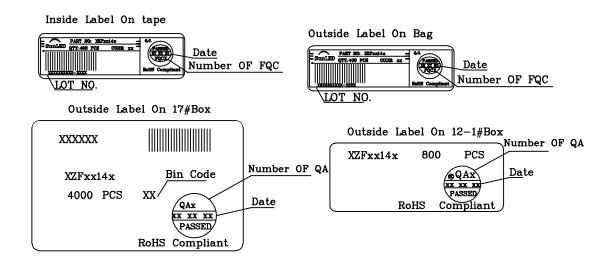
Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS





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