

## **Excellent Integrated System Limited**

Stocking Distributor

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

**SunLED** XDDGK14A

For any questions, you can email us directly: sales@integrated-circuit.com



## Distributor of SunLED: Excellent Integrated System Limited

Datasheet of XDDGK14A - DISPLAY 14.2MM GREEN 1DIGIET CA

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



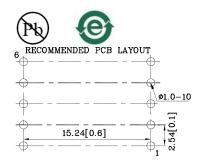
#### Part Number: XDDGK14A

14.2mm (0.56") SINGLE DIGIT NUMERIC DIS-

PLAY

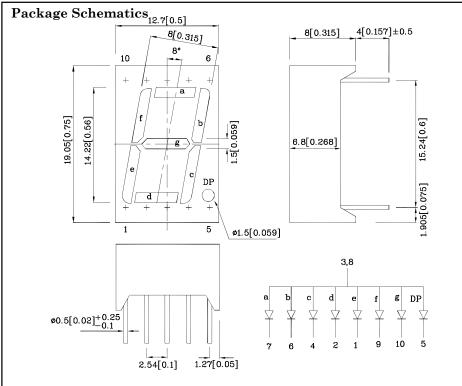
#### **Features**

- Low power consumption
- Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- 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.

Wavelength

2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		DGK (InGaN)	Unit
Reverse Voltage	$V_{\mathrm{R}}$	5	V
Forward Current	$I_{\mathrm{F}}$	25	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	mA
Power Dissipation	$P_{D}$	102.5	mW
Operating Temperature	$T_{\rm A}$	-40 ~ +85	
Storage Temperature	Tstg	-40 ~ +85	
Electrostatic Discharge Threshold (HBM)		450	V
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds		

Operating Characteristics (T <sub>A</sub> =25°C)		DGK (InGaN)	Unit
Forward Voltage (Typ.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	3	V
Forward Voltage (Max.) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	4.1	V
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	50	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λΡ	515*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λD	525*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	$\triangle \lambda$	35	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	45	pF

Part Number	Emitting Color	g Emitting Material	$(I_F=1)$	7-2007* .0mA) cd	CIE127-2007* nm λP	Description
			min.	typ.		
XDDGK14A	A Green	InGaN	88000 31000*	249990 71990*	515*	Common Anode, Rt. Hand Decimal.

Luminous Intensity

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

Jan 17,2014

XDSB7546 V2-X Layout: Maggie L.



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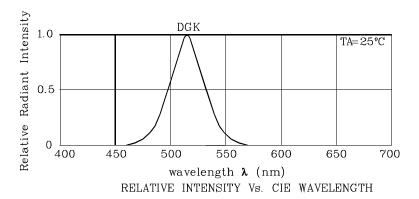
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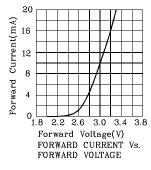


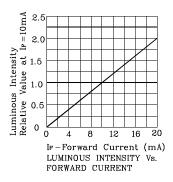
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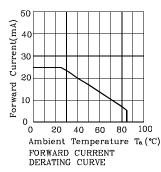
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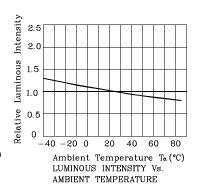


#### **♦** DGK

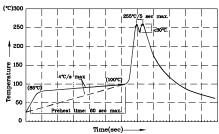








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- max).
  3.Do not apply stress to the epoxy resin while the temperature is above
  4.Fixtures should not incur stress on the component when mounting and
  during soldering process.
  5.3AC 305 solder alloy is recommended.
  6.No more than one wave soldering pass.

#### 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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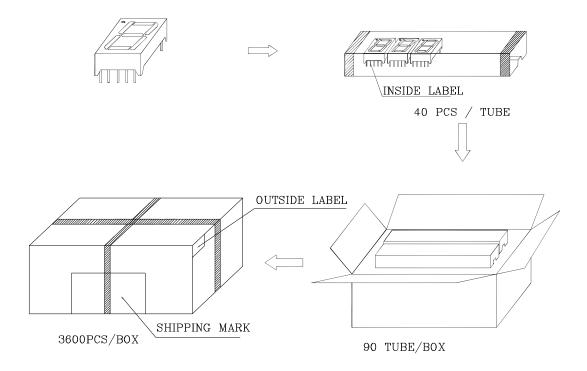


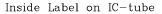
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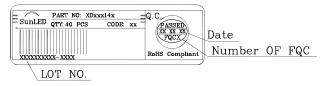
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**PLAY** 

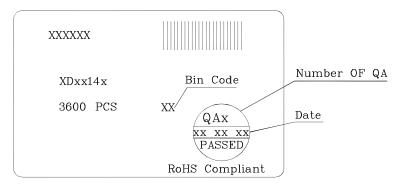
#### PACKING & LABEL SPECIFICATIONS







Outside Label on Box



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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
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XDSB7546 V2-X Layout: Maggie L.