

Excellent Integrated System Limited

Stocking Distributor

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SunLED XDVG20C-1

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



Distributor of SunLED: Excellent Integrated System Limited Datasheet of XDVG20C-1 - DISPLAY 20.32MM GREEN 1DIGIT CC Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

Part Number: XDVG20C-1

20.32mm (0.8") SINGLE DIGIT NUMERIC DIS-

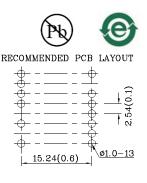
PLAY

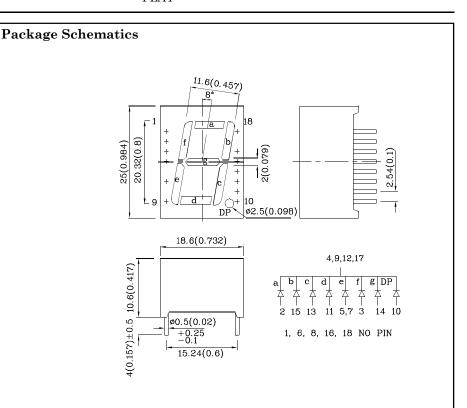


- Low power consumption
- Robust package
- I.C. Compatible
- \bullet Standard configuration: Gray face w/ white

segments

- Optional black face provides superior color contrast
- 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.

Absolute Maximum Ratings (T _A =25°C)		VG (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	ifs	150	mA	
Power Dissipation	\mathbf{P}_{D}	75	mW	
Operating Temperature	$T_{\rm A}$	$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-40 \sim +85$	-0	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

Operating Characteristics (T _A =25°C)		VG (AlGaInP)	Unit
Forward Voltage (Typ.) (I _F =10mA)	$V_{\rm F}$	2	V
Forward Voltage (Max.) (I _F =10mA)	$V_{\rm F}$	2.5	V
Reverse Current (Max.) (V _R =5V)	I_{R}	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λP	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$ riangle\lambda$	20	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (I _F =10mA) ucd		Wavelength CIE127- 2007* nm λP	Description
			min.	typ.		
XDVG20C-1	Green	AlGaInP	14000 3600*	24990 8690*	574*	Common Cathode, Rt. Hand Decimal

*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Jan 18,2014

XDSB7706 V1-X Layout: Maggie L.

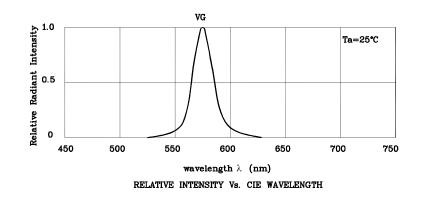


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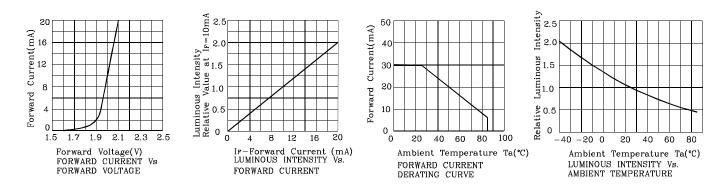
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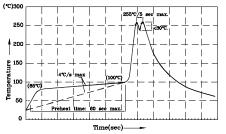
PLAY



♦ VG



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



temperature of 105°C or less (as measured i to the LED pins) prior to immersion in th a solder bath temperature of 260°C mend pre-heat occuple attache with a maximum hed um 260°C 255°C for 3 sec (5 se ring

max]. 3.Do not apply stress to the epoxy resin while the temperature is above 85 4.Fixtures should not incur stress on the component when mounting and during soldering process. 5.SAC 305 solder alloy is recommended. 6.No more than one wave soldering pass.

Remarks:

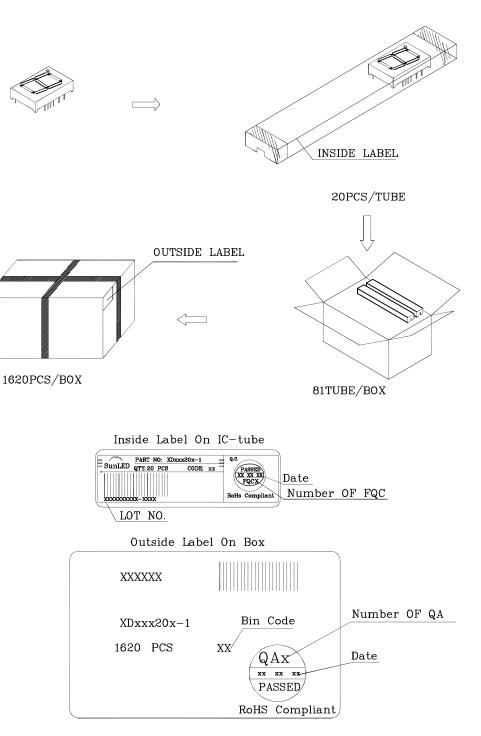
If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

- 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.



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.
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- 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>

Jan 18,2014

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