imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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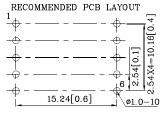
Part Number: XDUG13A

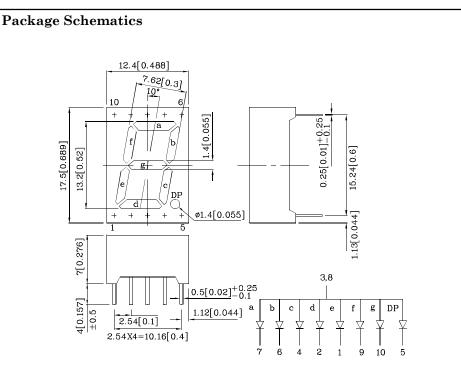
13.2mm(0.52") SINGLE DIGIT NUMERIC DISPLAY

Features

- \bullet Low power consumption
- \bullet Robust package
- I.C. Compatible
- 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 ±0.25(0.01")unless otherwise noted. 2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)		UG (GaP)	Unit	
Reverse Voltage	V_{R}	5	V	
Forward Current	$\mathbf{I}_{\mathbf{F}}$	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	140	mA	
Power Dissipation	\mathbf{P}_{D}	62.5	mW	
Operating Temperature	$T_{\rm A}$	$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-40 \sim +85$		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

Operating Characteristics (T _A =25°C)	UG (GaP)	Unit	
Forward Voltage (Typ.) (I _F =10mA)	V_{F}	2	V
Forward Voltage (Max.) (I _F =10mA)	V_{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	565*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	568*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$ riangle\lambda$	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	15	$_{\rm pF}$

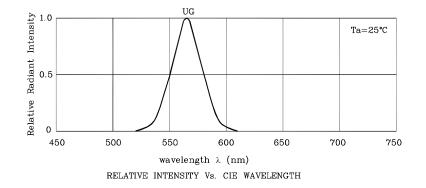
Part Number	Emitting Color	Emitting Material	Luminous Intensit CIE127-2007* (I _F =10mA) ucd	Wavelength CIE127-2007* nm λP	Description
			min. typ.		
XDUG13A	Green	GaP	5600 10490 2200* 3990*	565*	Common Anode, Rt.Hand Decimal.

 ${}^{*} \text{Luminous intensity value and wavelength are in accordance with CIE127-2007 standards}.$

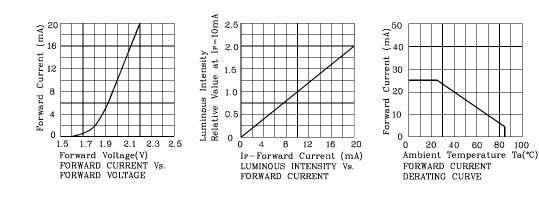
Jan 17,2014

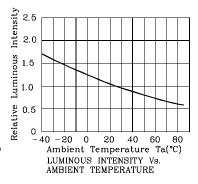
XDSA0211 V8-X Layout: Maggie L.



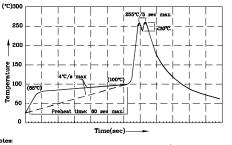


♦ UG





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



nmend pre-heat temperature of 105°C or less (as measured with a nocouple attached to the LED pins) prior to immersion in the solder with a maximum solder bath temperature of 280°C wave soldering temperature between 245°C \sim 255°C for 3 sec (5 sec 1. Rec the wave 2.Peak

 Peak wave soldering temperature betwe max).
Do not apply stress to the epoxy resin
Pixtures should not incur stress on the during soldering process.
SAC 305 solder alloy is recommended.
No more than one wave soldering pass. while the temperature is all component when mounting sin the

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

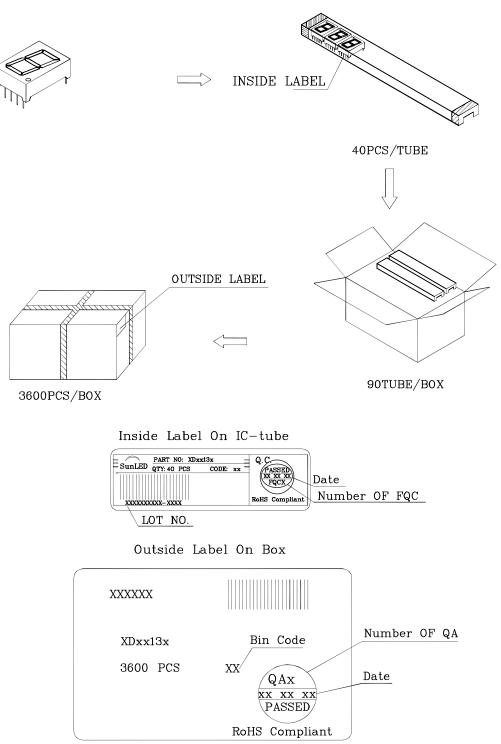
80 100

Note: Accuracy may depend on the sorting parameters.



13.2mm(0.52") SINGLE DIGIT NUMERIC DISPLAY

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
- consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- $6. \ Additional \ technical \ notes \ are \ available \ at \ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$