# 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: XDVG100C

101.2mm (4.0") SINGLE DIGIT NUMERIC DIS-PLAY

## Features

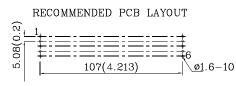
- $\bullet$  Low power consumption
- $\bullet$  Robust package
- I.C. Compatible

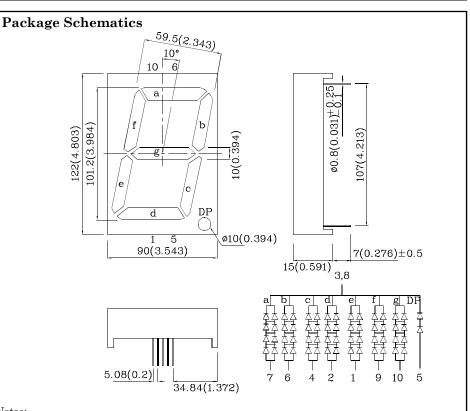
• Standard configuration: Gray face w/ white segments

• Optional black face provides superior color contrast

• RoHS Compliant







Notes:

1. All dimensions are in millimeters (inches), Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted. 2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)	VG (AlGaInP)	Unit		
Reverse Voltage (Per Chip)	$V_{\mathrm{R}}$	5	V	
Forward Current (Dp)	$I_{\rm F}$	60 (30)	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width (Dp)	ifs	300 (150)	mA	
Power Dissipation (Per Chip)	PD	150	mW	
Operating Temperature	TA	$-40 \sim +85$	°C	
Storage Temperature	Tstg	$-40 \sim +85$		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

Operating Characteristics (T <sub>A</sub> =25°C)	VG (AlGaInP)	Unit	
Forward Voltage (Typ.) (Dp) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	8.0 (4.0)	V
Forward Voltage (Max.) (Dp) (I <sub>F</sub> =10mA)	$V_{\mathrm{F}}$	10 (5.0)	V
Reverse Current (Max.) (Per Chip) (V <sub>R</sub> =5V)	$I_R$	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λP	574*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =10mA)	λD	570*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =10mA)	$ riangle\lambda$	20	nm
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	$\mathrm{pF}$

	Part umber	Emitting Color	Emitting Material	Luminous In CIE127-2 (I <sub>F</sub> =10mA	2007*	Wavelength CIE127-2007* nm λP	Description
				min.	typ.		
XD	VG100C	Green	AlGaInP	31000 14000*	99990 29990*	574*	Common Cathode, Rt.Hand Decimal.

\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Mar 11,2014

XDSB3582 V3-X Layout: Maggie L.



50

40

30

20

10

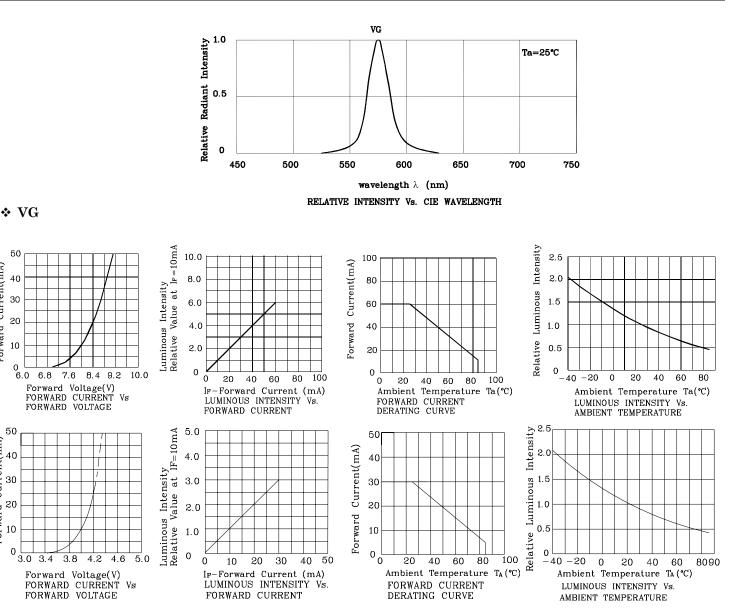
50

0

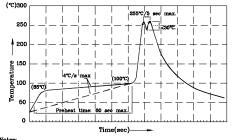
Forward Current(mA)

## Part Number: XDVG100C 101.2mm (4.0") SINGLE DIGIT NUMERIC DIS-

PLAY



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



- Notes: 1. Recommend pre-heat temperature of 105°C or less (as measured thermecouple attached to the LED pins) prior to immersion in U wave with a maximum solder bath temperature of 260°C 2. Peak wave soldering temperature between 245°C ~ 255°C for 3 so max). with a sec (5 sec

max). 3.Do not apply stress to the epoxy resin while the temperature is al 4.Fixtures should not incur stress on the component when mounting during soldering process. 5.SAC 305 solder alloy is recommended. 6.No more than one wave soldering pass. 7.During wave soldering, the PCB top-surface temperature should be kept below 105°C. and

Remarks:

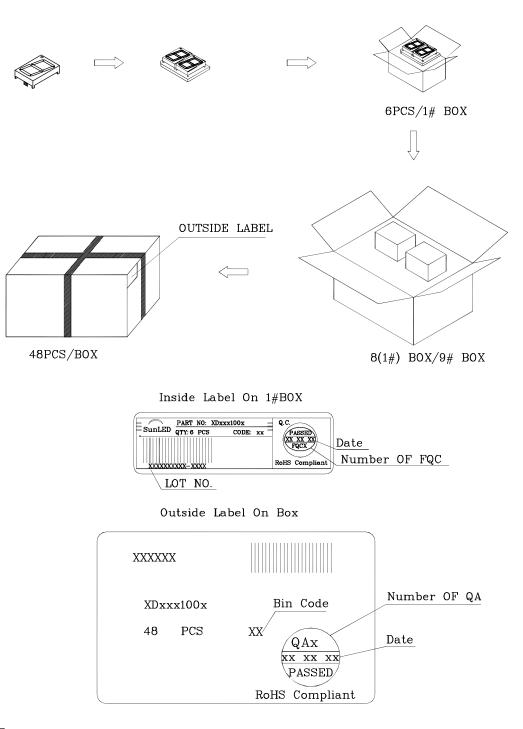
If special sorting is required (e.g. binning based on forward voltage,

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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