

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!



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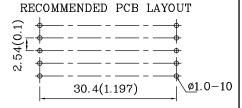
25.4mm (1.0") SINGLE DIGIT NUMERIC DISPLAY

# **Features**

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



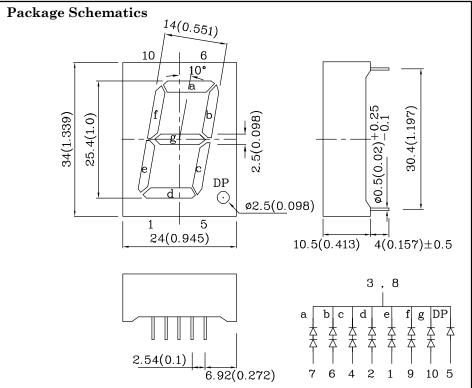






# ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE

DEVICES



## Notes.

1. All dimensions are in millimeters (inches), Tolerance is  $\pm$  0.25(0.01")unless otherwise noted.

2. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		CBD (InGaN)	Unit	
Reverse Voltage (Per Chip)	$V_{\rm R}$	5	V	
Forward Current (Dp)	$I_{\mathrm{F}}$	30 (30)	mA	
Forward Current (Peak) 1/10Duty Cycle 0.1ms Pulse Width ( Dp)	ifs	150 (150)	mA	
Power Dissipation (Per Chip)	$P_{D}$	120	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	-40 ~ +85	
Storage Temperature	Tstg	-40 ~ +85		
Electrostatic Discharge Threshold (HBM)		250	V	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

Operating Characteristics (T <sub>A</sub> =25°C)		CBD (InGaN)	Unit
Forward Voltage (Typ.) (Dp) (IF=10mA)	$V_{\mathrm{F}}$	6.0 (3.0)	V
Forward Voltage (Max.) (Dp) (IF=10mA)	$V_{\mathrm{F}}$	8 (4.0)	V
Reverse Current (Max.) (Per Chip) (VR=5V)	$I_{\mathrm{R}}$	50	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) (IF=10mA)	λР	465*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (IF=10mA)	λD	460*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA)	$\triangle \lambda$	25	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	100	pF

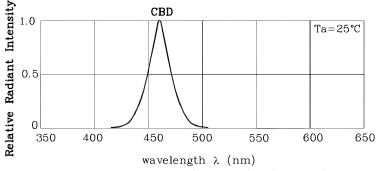
Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* (IF=10mA) ucd		Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XDCBD25C	Blue	InGaN	21000 *	53990 *	460 *	Common Cathode, Rt. Hand Decimal

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

XDSB7713 V1-Z Layout: Maggie L.

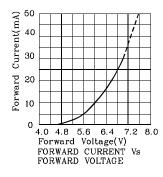


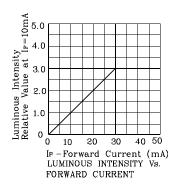
www.SunLEDusa.com

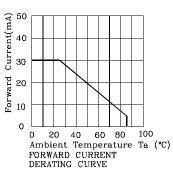


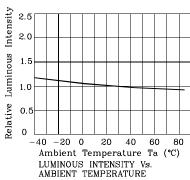
RELATIVE INTENSITY Vs. CIE WAVELENGTH

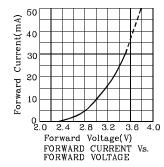
# **♦** CBD

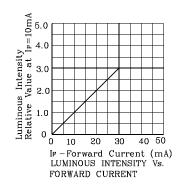


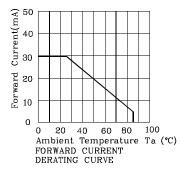


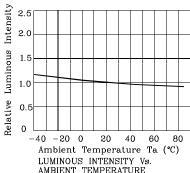




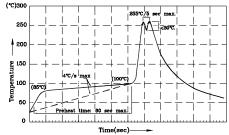








# Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 2.Peak wave rooms and any stress to the epoxy resin 4.Fixtures should not incur stress on the during soldering process. S.ACC 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:

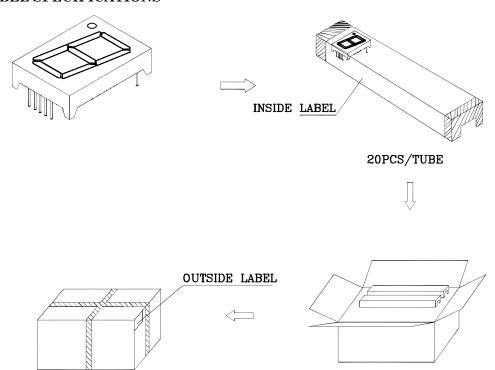
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

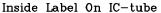
Note: Accuracy may depend on the sorting parameters.

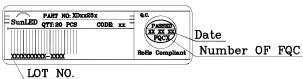
40TUBE/10#BOX



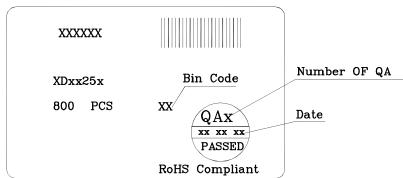
# PACKING & LABEL SPECIFICATIONS







# Outside Label On Box



# 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.

800PCS/BOX

 $6. \ Additional\ technical\ notes\ are\ available\ at\ \underline{http://www.SunLEDusa.com/TechnicalNotes.asp}$ 

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