

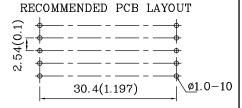
25.4mm (1.0") SINGLE DIGIT NUMERIC DISPLAY

Features

- Low power consumption
- 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

Package Schematics 14(0.551) 6 10° 34(1.339) 2.5(0.098) 25.4(1.0)DP ø2.5(0.098) 5 24(0.945) 10.5(0.413) $4(0.157)\pm0.5$ 3,8 b d 太太 本本

Notes:

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

6.92(0.272)

2.54(0.1)

Absolute Maximum Ratings (T _A =25°C)	CBD (InGaN)	Unit		
Reverse Voltage (Per Chip) V		5	V	
Forward Current (Dp)	I_{F}	30 (30)	mA	
Forward Current (Peak) 1/10Duty Cycle 0.1ms Pulse Width (Dp)		150 (150)	mA	
Power Dissipation (Per Chip)	P_{D}	120	mW	
Operating Temperature	T_{A}	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85		
Electrostatic Discharge Threshold (HBM)		250	V	
Lead Solder Temperature [200 Polymore Polymore Possel] 260°C I		For 3-5 Seconds	•	

Operating Characteristics (T _A =25°C)		CBD (InGaN)	Unit
Forward Voltage (Typ.) (Dp) (IF=10mA)	V_{F}	6.0 (3.0)	V
Forward Voltage (Max.) (Dp) (IF=10mA)	V_{F}	8 (4.0)	V
Reverse Current (Max.) (Per Chip) (VR=5V)	I_{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)	С	100	pF

Part Number	Emitting Color	Emitting Material	Luminous CIE127 (IF=10n	7-2007*	Wavelength CIE127-2007* nm λP	Description
			min.	typ.		
XDCBD25C	Blue	InGaN	21000 *	53990 *	460 *	Common Cathode, Rt. Hand Decimal

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

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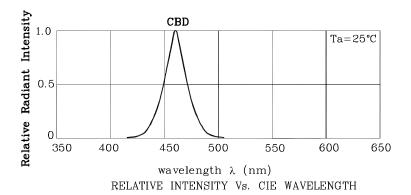
6

[2mm Below Package Base]

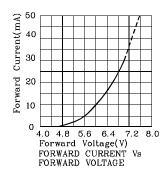


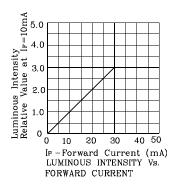
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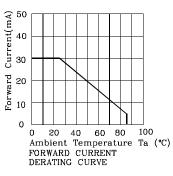
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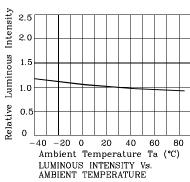


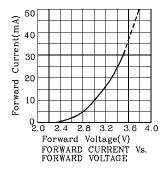
♦ CBD

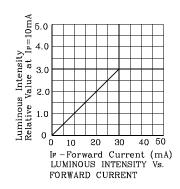


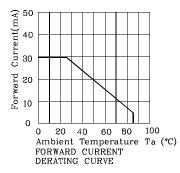


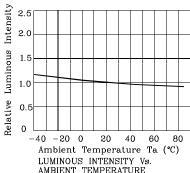




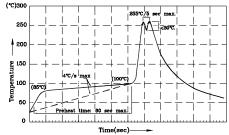








Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



- 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:

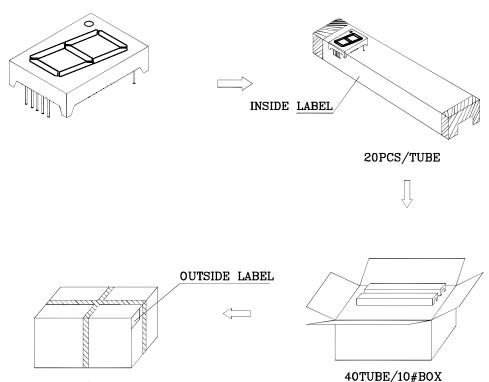
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

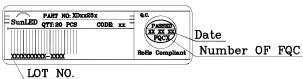


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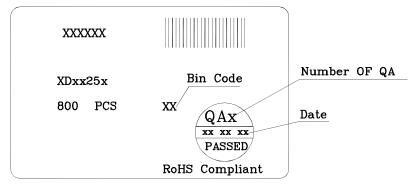
PACKING & LABEL SPECIFICATIONS







Outside Label On Box



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- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 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

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

XDSB7713 V1-Z Layout: Maggie L.