

Part Number: XDCBD14A

14.22 mm (0.56") Single Digit Numeric Display

8(0.315) 4(0.157)±0.5

15.24(0.6)

g DP

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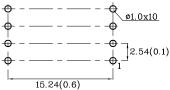
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1.905(0.075)

Features

- 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







$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
$ \underbrace{ \begin{array}{c} 3,8 \\ 0.5(0.02)_{-0.1}^{+0.25} \\ \hline \end{array} } \\ \underbrace{ \begin{array}{c} 3,8 \\ 0 \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 3,8 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \begin{array}{c} 2 \\ \hline \end{array} \\ \end{array} \\$

2.54(0.1)

12.7(0.5)

<u>8°</u>

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8(0.315)

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Package Schematics

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.

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1.27(0.05)

Absolute Maximum Ratings (T _A =25°C)		Blue (InGaN)	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}	120	mW	
Operating Temperature	$T_{\rm A}$	-40 ~ +85	°C	
Storage Temperature	Tstg	$-40 \sim +85$		
Electrostatic Discharge Threshold (HBM)		250	V	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds			

A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly process (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

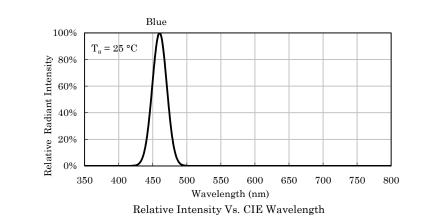
Operating Characteristics (T _A =25°C)		Blue (InGaN)	Unit
Forward Voltage (Typ.) (I _F =10mA)	$V_{\rm F}$	3	V
Forward Voltage (Max.) (I _F =10mA)	$V_{\rm F}$	3.5	V
Reverse Current (Max.) $(V_R=5V)$	I_R	50	μΑ
Wavelength of Peak Emission CIE127-2007* (Typ.) (I _F =10mA)	λΡ	460*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) (I _F =10mA)	λD	465*	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =10mA)	$ riangle\lambda$	25	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	С	100	$_{ m pF}$

Lu Part Emitting CIE127-2007* CIE127-2007* Emitting Description Number Color Material $(I_F=10mA)$ nm ucd λP min. typ. Common Anode, XDCBD14A Blue InGaN 9000* 23990* 460* Rt. Hand Decimal.

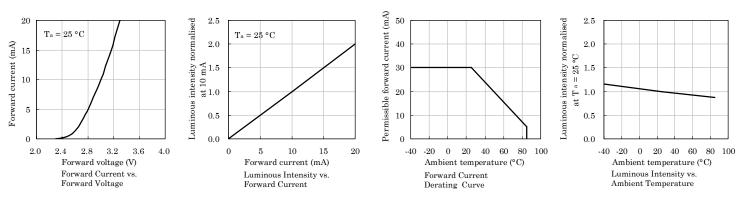
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards. Feb 02.2023

XDSB5568 V5-Z Layout: Maggie L.

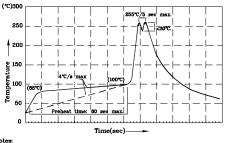




Slue



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



 Peak wave soldering temperature between 245°C ~ 255°C for 3 secmax).
 Do not apply stress to the epoxy resin while the temperature is a 4-Pixtures should not incur stress on the component when mounting during soldering process.
 SAC 305 solder alloy is recommended.
 No more than one wave soldering pass.
 During wave soldering, the PCB top-surface temperature should be kept below 105°C. while the temperature is above component when mounting and 85°C

Remarks:

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

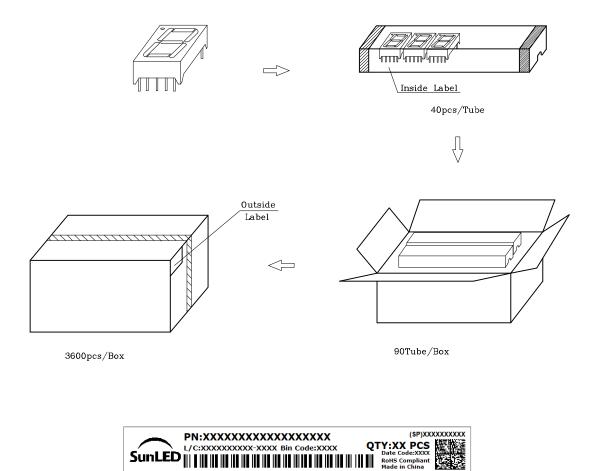
luminous intensity / luminous flux, or wavelength),

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



RoHS Complia

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