# **LITEON** LITE-ON TECHNOLOGY CORPORATION **Property of Lite-on Only**

# **FEATURES**

0.28-inch (7.0-mm) DIGIT HEIGHT. CONTINUOUS UNIFORM SEGMENTS. LOW POWER REQUIREMENT. EXCELLENT CHARACTERS APPEARANCE. HIGH BRIGHTNESS & HIGH CONTRAST. WIDE VIEWING ANGLE. SOLID STATE RELIABILITY. CATEGORIZED FOR LUMINOUS INTENSITY.

## **DESCRIPTION**

The LTS-2801AB is a 0.28-inch (7.0-mm) digit height single digit seven-segment display. This device utilizes blue LED chips, which are made from GaN on a SiC substrate, and has a gray face and white segments.

# DEVICE

PART NO.	DESCRIPTION			
BLUE	Common Anode			
LTS-2801AB	Rt. Hand Decimal			

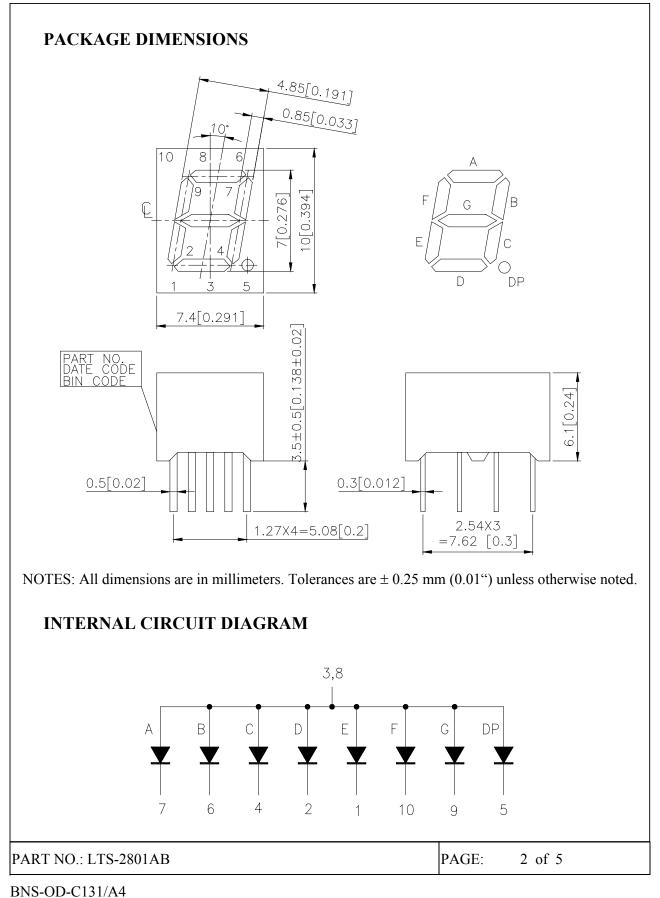
PART NO.: LTS-2801AB	PAGE:	1 of 5
TAKI NO.: LIS-2001AD		1 01 5

BNS-OD-C131/A4



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## **PIN CONNECTION**

No.	CONNECTION
1	CATHODE E
2	CATHODE D
3	COMMON ANODE
4	CATHODE C
5	CATHODE D.P.
6	CATHODE B
7	CATHODE A
8	COMMON ANODE
9	CATHODE G
10	CATHODE F

PART NO.: LTS-2801AB	PAGE:	3 of 5	
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BNS-OD-C131/A4

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#### **ABSOLUTE MAXIMUM RATING AT Ta=25°C**

PARAMETER	MAXIMUM RATIN	G UNIT		
Power Dissipation Per Segment	115	mW		
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA		
Continuous Forward Current Per Segment	25	mA		
Derating Linear From 25 Per Segment	0.33	mA/		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35 to +8	5		
Storage Temperature Range	-35 to +8	35		
Solder Temperature: max 260 for max 3sec at 1.6mm below seating plane.				

## ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1000	3000		μcd	IF=10mA
Peak Emission Wavelength	λp		428		nm	I <sub>F</sub> =20mA
Spectral Line Half-Width	Δλ		65		nm	IF=20mA
Dominant Wavelength	λd		466		nm	IF=20mA
Forward Voltage Per Segment	VF		3.8	4.5	V	IF=20mA
Reverse Current Per Segment	IR			100	μA	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I <sub>F</sub> =10mA

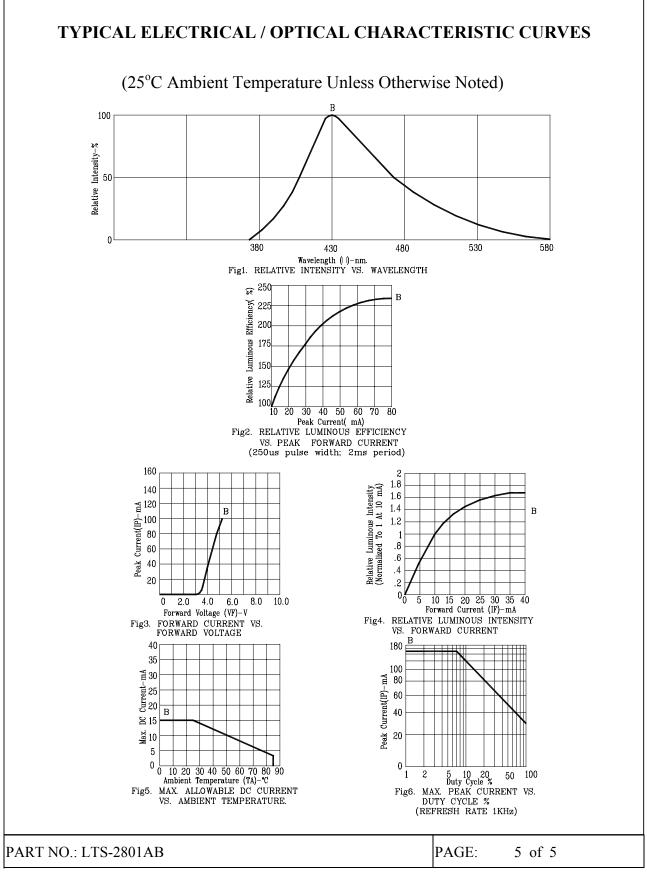
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

PA	XT NO.: LTS-2801AB	PAGE:	4 of 5	

BNS-OD-C131/A4



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BNS-OD-C131/A4