# LITEON

### LITE-ON TECHNOLOGY CORPORATION Property of Lite-On Only

#### **FEATURES**

0.4 inch (10.0 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-4801B is a 0.4 inch (10.0 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-4801B	Rt. Hand Decimal		

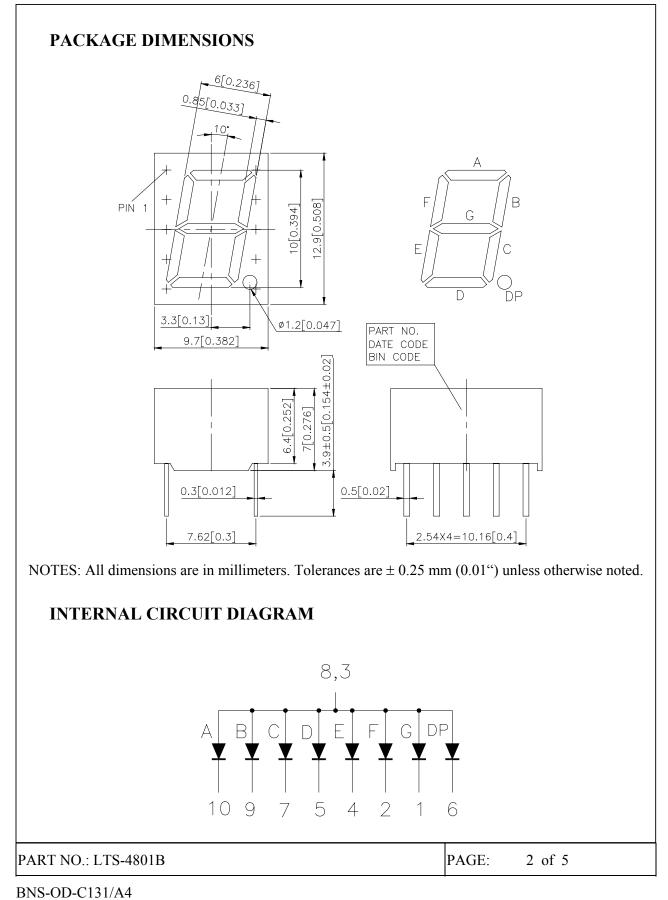
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#### **PIN CONNECTION**

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

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## **LITEON** LITE-ON TECHNOLOGY CORPORATION

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

PARAMETER	MAXIMUM RATING	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 +85		
Storage Temperature Range	-35 to +85		
Solder Temperature: max 260 for max 3sec at 1.6mm[1/16inch] below seating plane.			

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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1200	3600		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		IF=10mA

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

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