# 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

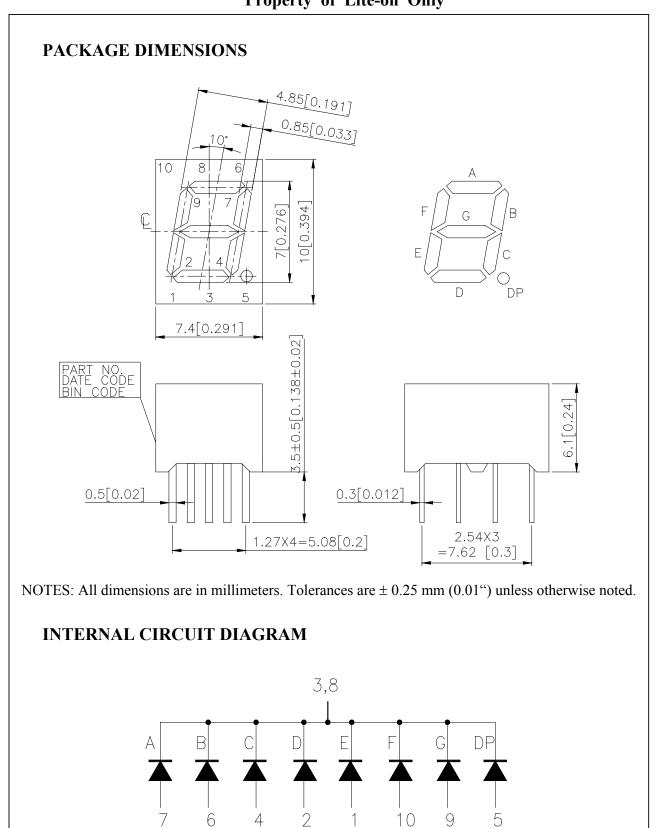
The LTS-2301AB is a 0.28-inch (7.0-mm) digit height single digit seven-segment display. This device utilizes blue LED chips, which are made from GaN on a SiC substrate, and has a gray face and white segments.

#### DEVICE

PART NO.	DESCRIPTION			
BLUE	Common Cathode			
LTS-2301AB	Rt. Hand Decimal			



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

#### **PIN CONNECTION**

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

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

PARAMETER	MAXIMUM RA	ATING 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 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

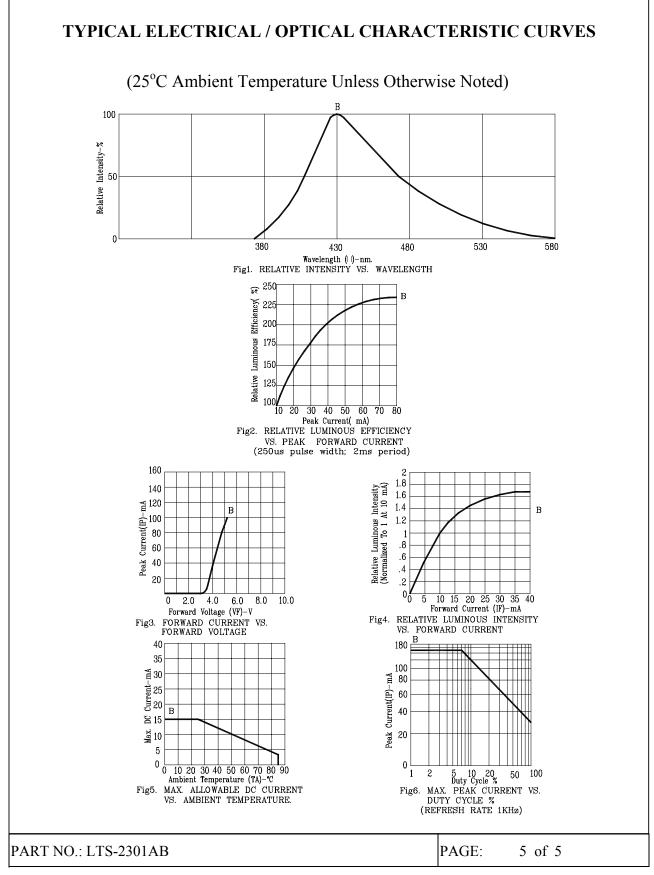
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

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