

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 LTD-2701B is a 0.28-inch (7.0-mm) digit height dual 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.

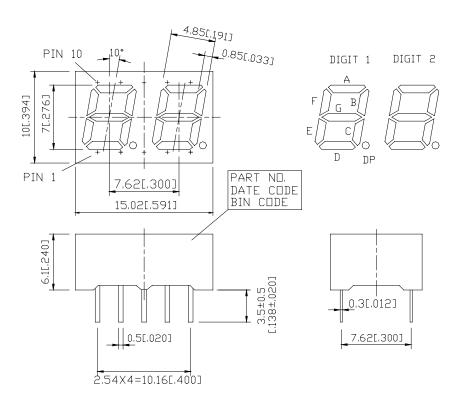
DEVICE

PART NO.	DESCRIPTION		
BLUE	Duplex Common Cathode		
LTD-2701B	Rt. Hand Decimal		

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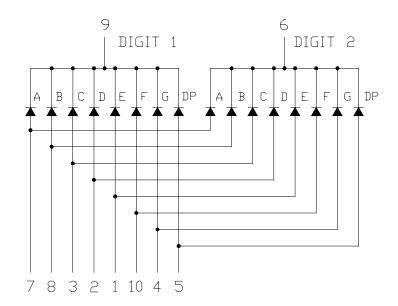
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PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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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 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	I _F =10mA
Peak Emission Wavelength	λр		428		nm	I _F =20mA
Spectral Line Half-Width	Δλ		65		nm	I _F =20mA
Dominant Wavelength	λd		466		nm	I _F =20mA
Forward Voltage Per Segment	VF		3.8	4.5	V	I _F =20mA
Reverse Current Per Segment	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

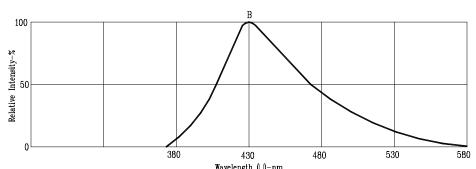
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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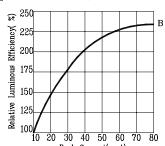
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

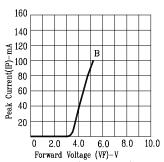
(25°C Ambient Temperature Unless Otherwise Noted)

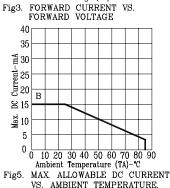


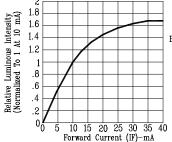
Wavelength (1)-nm.
Fig1. RELATIVE INTENSITY VS. WAVELENGTH

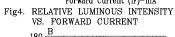


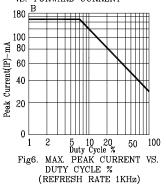
Peak Current(mA)
Fig2. RELATIVE LUMINOUS EFFICIENCY
VS. PEAK FORWARD CURRENT
(250us pulse width; 2ms period)











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