



Spec No.: DS-30-96-237Effective Date: 05/10/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

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FEATURES

- *0.4 inch (10.21 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-432EC is a 0.4 inch (10.21 mm) height seven-segment display. This device utilizes red orange LED chips, which are made from GaAsP on a transparent GaP substrate, and have red cap.

DEVICE

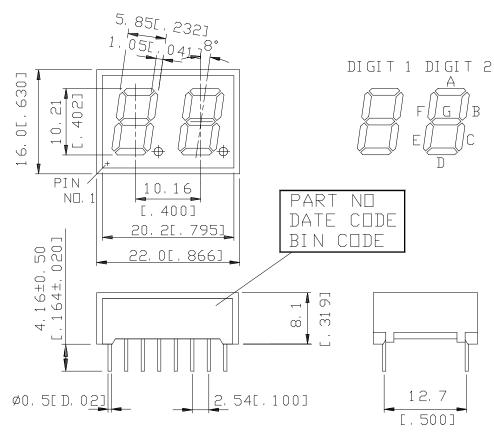
PART NO.	DESCRIPTION			
Red Orange	Common Cathode			
LTD-432EC				

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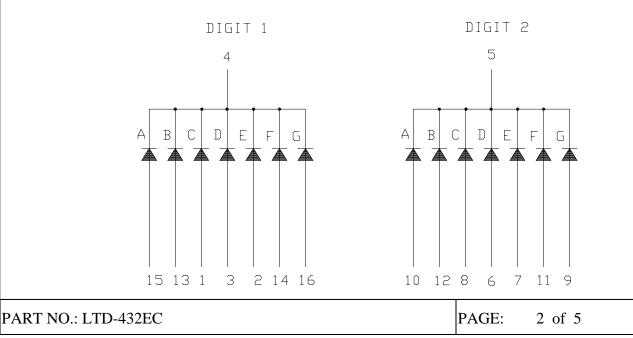
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

NO.	CONNECTION				
1	ANODE C (DIGIT 1)				
2	ANODE E (DIGIT 1)				
3	ANODE D (DIGIT 1)				
4	COMMON CATHODE (DIGIT 1)				
5	COMMON CATHODE (DIGIT 2)				
6	ANODE D (DIGIT 2)				
7	ANODE E (DIGIT 2)				
8	ANODE C (DIGIT 2)				
9	ANODE G (DIGIT 2)				
10	ANODE A (DIGIT 2)				
11	ANODE F(DIGIT 2)				
12	ANODE B (DIGIT 2)				
13	ANODE B (DIGIT 1)				
14	ANODE F (DIGIT 1)				
15	ANODE A (DIGIT 1)				
16	ANODE G (DIGIT 1)				

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	75	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA			
Continuous Forward Current Per Segment	25	mA			
Derating Linear From 25°C Per Segment	0.33	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature: max 260°C for max 3sec at 1.6mm below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

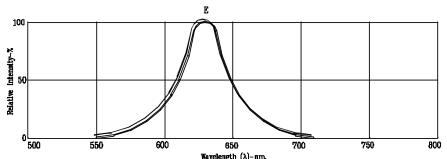
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	500	1300		μcd	I=10mA
Peak Emission Wavelength	λр		630		nm	I=20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		621		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

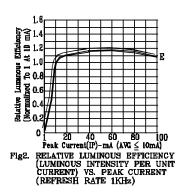
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

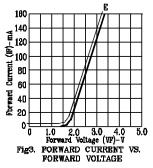
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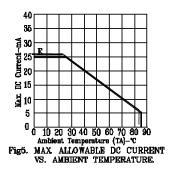
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

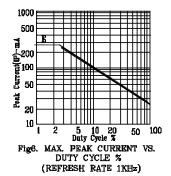








Porward Current (IF) ma Fig4. RELATIVE LUMINOUS INTENSITY YS. FORWARD CURRENT



NOTE: E=RED ORANGE

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Mouser Electronics

Authorized Distributor

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