



Spec No.: DS-30-96-310 Effective Date: 09/06/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

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FEATURES

- * 0.52 INCH (13.2 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 LTC-5836E is a 0.52 inch (13.2 mm) digit height triple LED display. This device utilizes red orange LED chips, which are made from GaAsP on a transparent GaP substrate, and has a gray face and white segments.

DEVICE

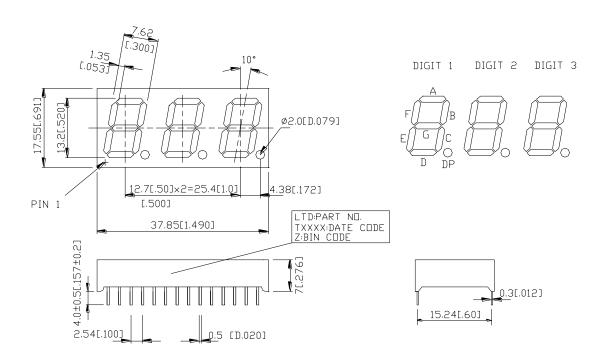
PART NO.	DESCRIPTION		
Red Orange	Common Anode		
LTC-5836E	R.t Hand Decimal		

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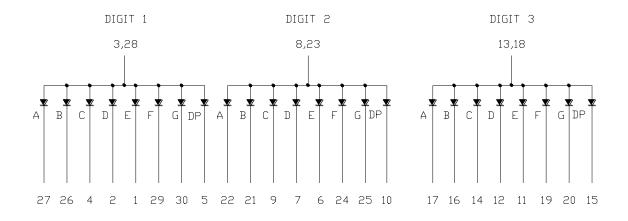
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PACKAGE DIMENSIONS



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	NO	CONNECTION		
1	CATHODE E (DIGIT 1)	16	CATHODE B (DIGIT 3)		
2	CATHODE D (DIGIT 1)	17	CATHODE A (DIGIT 3)		
3	COMMON ANODE (DIGIT 1)	18	COMMON ANODE (DIGIT 3)		
4	CATHODE C (DIGIT 1)	19	CATHODE F (DIGIT 3)		
5	CATHODE D.P. (DIGIT 1)	20	CATHODE G (DIGIT 3)		
6	CATHODE E (DIGIT 2)	21	CATHODE B (DIGIT 2)		
7	CATHODE D (DIGIT 2)	22	CATHODE A (DIGIT 2)		
8	COMMON ANODE (DIGIT 2)	23	COMMON ANODE (DIGIT 2)		
9	CATHODE C (DIGIT 2)	24	CATHODE F (DIGIT 2)		
10	CATHODE D.P. (DIGIT 2)	25	CATHODE G (DIGIT 2)		
11	CATHODE E (DIGIT 3)	26	CATHODE B (DIGIT 1)		
12	CATHODE D (DIGIT 3)	27	CATHODE A (DIGIT 1)		
13	COMMON ANODE (DIGIT 3)	28	COMMON ANODE (DIGIT 1)		
14	CATHODE C (DIGIT 3)	29	CATHODE F (DIGIT 1)		
15	CATHODE D.P. (DIGIT 3)	30	CATHODE G (DIGIT 1)		

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ABSOLUTE MAXIMUM RATING AT T_A=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 ⁰ C Per Segment	0.33	mA/ ⁰ C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35° C to $+85^{\circ}$ C			
Storage Temperature Range	-35° C to $+85^{\circ}$ C			
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C				

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

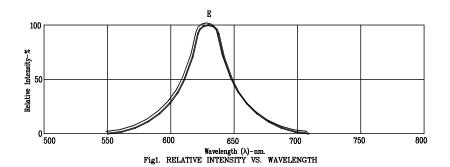
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λр		630		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		621		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

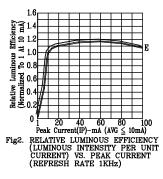
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commision internationale DE L'clariage) eye-response curve.

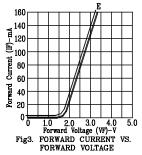
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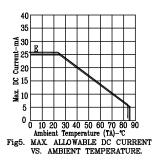
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

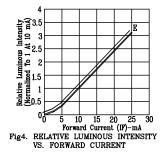
(25°C Ambient Temperature Unless Otherwise Noted)

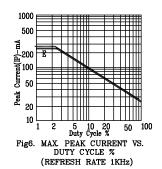












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