

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Spec No.: DS30-2000-101Effective Date: 05/27/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

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 LTC-4857E is a 0.4 inch (10.21-mm) digit height triple digit seven-segment display. This device utilizes red orange LED chips, which are made from GaAsP on GaP substrate, and has a gray face and white segments.

DEVICE

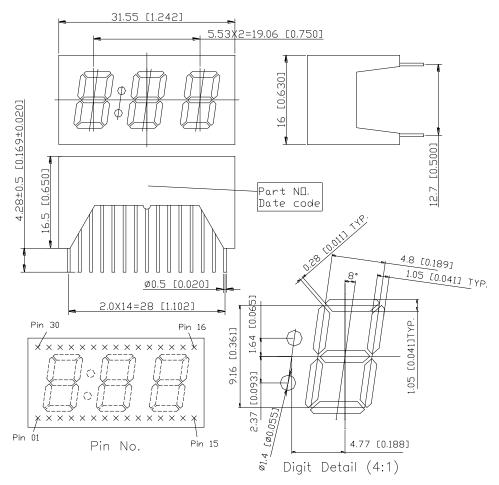
PART NO.	DESCRIPTION		
RED ORANGE	go. g. to. t		
LTC-4857E	COMMON ANODE		

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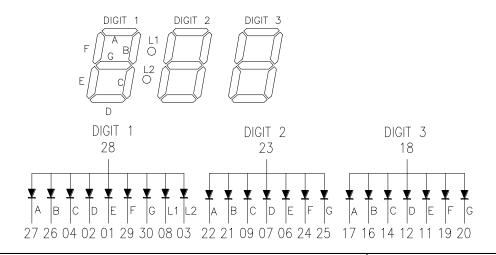
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PACKAGE DIMENSIONS



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	CATHODE L2 (DIGIT 1)	18	COMMON ANODE (DIGIT 3)		
4	CATHODE C (DIGIT 1)	19	CATHODE F (DIGIT 3)		
5	NO CONNECTION	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	CATHODE L1 (DIGIT 1)	23	COMMON ANODE (DIGIT 2)		
9	CATHODE C (DIGIT 2)	24	CATHODE F (DIGIT 2)		
10	NO CONNECTION	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	NO CONNECTION	28	COMMON ANODE (DIGIT 1)		
14	CATHODE C (DIGIT 3)	29	CATHODE F (DIGIT 1)		
15	NO CONNECTION	30	CATHODE 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	0.28	mA/°C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35°C to $+105$ °C			
Storage Temperature Range	-35°C to +105°C			
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

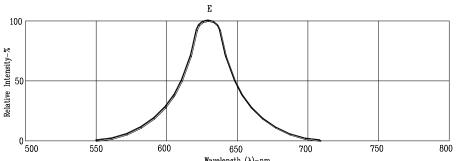
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	I _F =10mA
Peak Emission Wavelength	λр		630		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		621		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	I _F =20mA
Reverse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

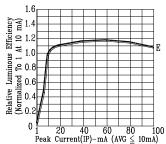
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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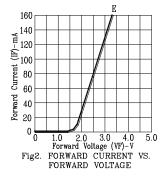
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

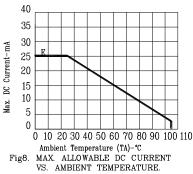
(25°C Ambient Temperature Unless Otherwise Noted)



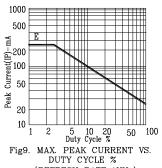


0 1 20 40 60 80 100 Peak Current(IP)-mA (AVG ≦ 10mA) RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHZ)





Ŷ<u>#</u> 3.5 9. 3 ₹2.5 slative Luminous li formalized To 1 At 5 5 5 5 1 7 5 10 15 20 25 Forward Current (IF)-mA Fig3. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



(REFRESH RATE 1KHz)

NOTE: E=RED ORANGE

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