Property of Lite-On Only

FEATURES

- * 0.3 inch (7.62 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 LTP-3862E is a 0.3 inch (7.62 mm) digit height dual digit 17-segment alphanumeric display. This device uses Red Orange LED chips (GaAsP epi on GaP substrate). The display has black face and white segments.

DEVICE

PART NO.	DESCRIPTION		
RED ORANGE	Multiplex Common Anode		
LTP-3862E	Rt. Hand Decimal		

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PACKAGE DIMENSIONS Pin 11 Pin 20 7.62 [0.300] Pin 01 4.95 [0.195] 8.5 [0.335] 64 [0.025] 16.9 [0.665] 6.2 [0.244] PART NO DATE CODE 0.64 [0.025] 4.16±0.5 [0.164] ϕ 0.45 [0.018] 1.27X9= 11.43 [0.450] 2.84 [0.112] NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25 mm (0.01") unless otherwise noted. INTERNAL CIRCUIT DIAGRAM 04 10 01 13 08 09 06 15 19 18 12 16 03 02 20 05 .haracter

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PIN CONNECTION

No.	CONNECTION				
1	CATHODE F				
2	CATHODE T				
3	CATHODE S				
4	COMMON ANODE (Digit 1)				
5	CATHODE DP				
6	CATHODE G				
7	CATHODE R				
8	CATHODE D				
9	CATHODE E				
10	COMMON ANODE (Digit 2)				
11	CATHODE B				
12	CATHODE N				
13	CATHODE A				
14	NO CONNECTION				
15	CATHODE H				
16	CATHODE P				
17	CATHODE C				
18	CATHODE M				
19	CATHODE K				
20	CATHODE U				

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	75	mW			
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	100*	mA			
Continuous Forward Current Per Segment	25	mA			
Forward Current Derating from 25°C	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				
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C					

^{*} see figure 5 to establish pulsed condition

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

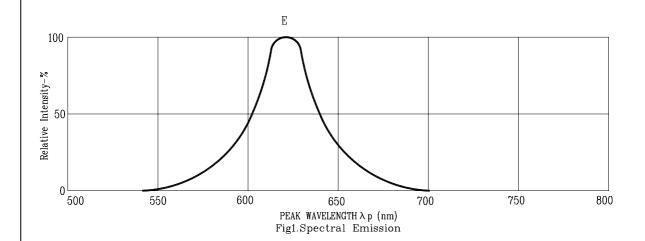
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	T	900	2000		الم ما	I- 10 A
Per Segment	Iv	800	2000		μcd	I _F =10mA
Peak Emission Wavelength	λр		630		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		621		nm	I _F =20mA
Forward Voltage Per Segment	V_{F}		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

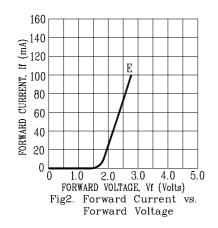
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

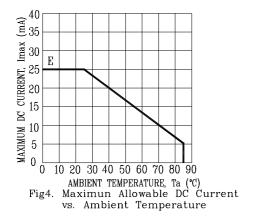
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)







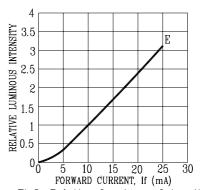
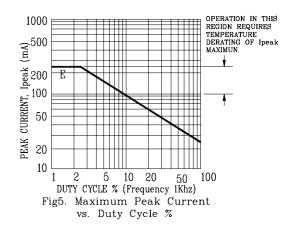


Fig3. Relative Luminous Intensity vs. DC Forward Current



NOTE: E=RED ORANGE

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