Property of Lite-On Only

FEATURES

- *0.40 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.
- *LEAD-FREE PACKAGE

DESCRIPTION

The LTD-482EC is a 0.40 inch (10.21 mm) digit height dual digit seven-segment display. This device utilizes red orange LED chips, which are made from GaAaP on a transparent GaP substrate, and have red cap.

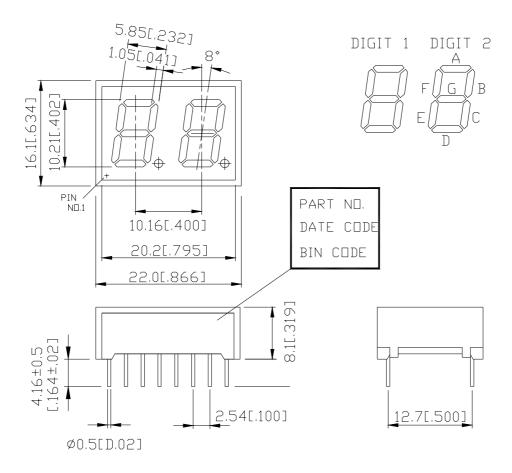
DEVICE

PART NO.	DESCRIPTION			
RED ORANGE	COMMON ANODE			
LTD-482EC	COMMON ANODE			

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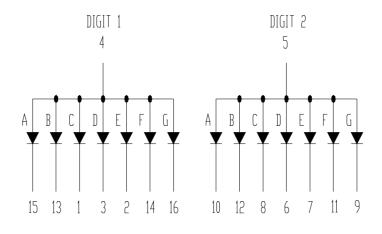
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

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Property of Lite-On Only

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[1/16inch] 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 _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	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

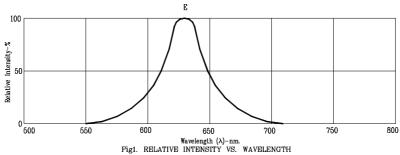
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

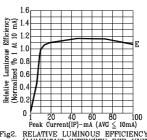
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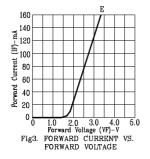
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

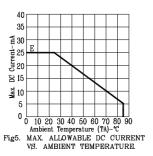
(25°C Ambient Temperature Unless Otherwise Noted)



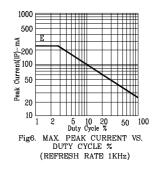


*1 20 40 60 80 100 Peak Current(IP)-mA (AVG ≤ 10mA) RELATIVE LUMINOUS EIFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PBAK CURRENT (REFRESH RATE 1KHz)





Intensity At 10 mA) ₹2.5 ative Luminous 1: ormalized To 1 At 1 9 5 5 00 5 10 15 20 25 30
Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: E=RED ORANGE

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