



Spec No.: DS-30-99-550 Effective Date: 05/04/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.4 inch (10.2 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 LTD-482P-YQ is a 0.4 inch (10.2 mm) digit height dual digit seven-segment display. This device utilizes bright red LED chips, which are made from GaP on a transparent GaP substrate, and has a black face and red segments.

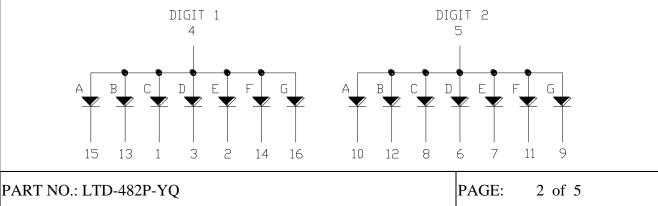
DEVICE

PART NO.	DESCRIPTION		
BRIGHT RED			
LTD-482P-YQ	Common Anode		

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PACKAGE DIMENSIONS 5.85 [0.23] 1.05 [0.04] ∞ DIGIT 1 DIGIT 2 0. [0.63] ø1.3 [ø0.05] PIN1 10.16 [0.4] 3.4 [0.13] 20.1 [0.79] 4.16±0.5 [0.16±0.02] PART NO. DATE CODE BIN CODE [0.28]Ø0.5 [0.02] 12.7 [0.5] 2.54X7 = 17.78 [0.7]NOTES: All dimensions are in millimeters. Tolerances are \pm 0.25 mm (0.01") unless otherwise noted. INTERNAL CIRCUIT DIAGRAM DIGIT 2 DIGIT 1 4 5



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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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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	40	mW			
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	60	mA			
Continuous Forward Current Per Segment	15	mA			
Derating Linear From 25°C Per Segment	0.2	mA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range -35° C to $+85^{\circ}$ 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	320	800		μcd	I _F =10mA
Peak Emission Wavelength	λр		697		nm	IF=20mA
Spectral Line Half-Width	Δλ		90		nm	I _F =20mA
Dominant Wavelength	λd		657		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.1	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

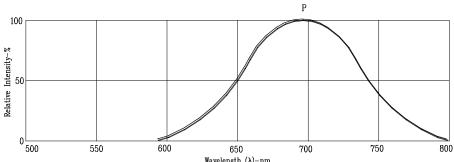
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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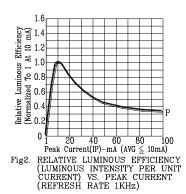
Property of Lite-On Only

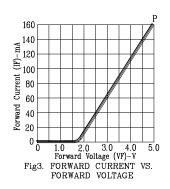
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

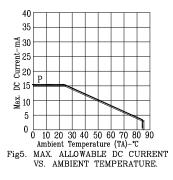
(25°C Ambient Temperature Unless Otherwise Noted)



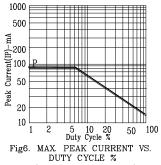
 $\label{eq:wavelength} \mbox{Wavelength } (\lambda)-nm.$ Fig1. RELATIVE INTENSITY VS. WAVELENGTH







Relative Luminous Intensity (Normalized To 1 At 10 mA) \dot{c} \dot{c} \dot{c} \dot{c} \dot{c} \dot{c} \dot{c} \dot{c} \dot{c} Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



(REFRESH RATE 1KHz)

NOTE: P=BRIGHT RED

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