



Spec No.: DS-30-94-206Effective Date: 01/16/2010

Revision: B

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.56 INCH (14.22 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(ACCORDING TO ROHS)

DESCRIPTION

The LTD-6910HR is a 0.56 inch (14.22 mm) height dual digit seven-segment display. This device utilizes high efficiency red LED chips, which are made from GaAsP on a transparent GaP substrate, and has a red face and red segments.

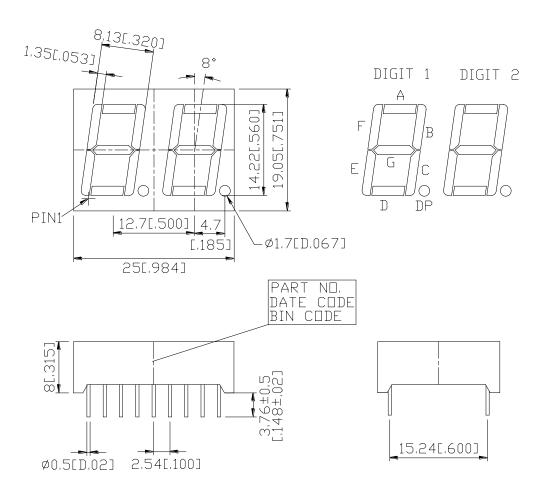
DEVICE

PART NO.	DESCRIPTION		
HI. – EFF. RED	Common Anode		
LTD-6910HR	Rt. Hand Decimal		

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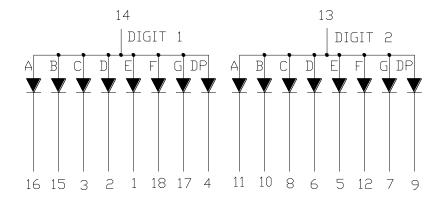
PACKAGE DIMENSIONS



NOTES: 1. All dimensions are in millimeters. Tolerances are \pm 0.25 mm unless otherwise note.

2. Pin tip's shift tolerance is \pm 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

NO	CONNECTION				
1	Cathode E (Digit 1)				
2	Cathode D (Digit 1)				
3	Cathode C (Digit 1)				
4	Cathode D.P. (Digit 1)				
5	Cathode E (Digit 2)				
6	Cathode D (Digit 2)				
7	Cathode G (Digit 2)				
8	Cathode C(Digit 2)				
9	Cathode D.P. (Digit 2)				
10	Cathode B (Digit 2)				
11	Cathode A (Digit 2)				
12	Cathode F (Digit 2)				
13	Common Anode (Digit 2)				
14	Common Anode (Digit 1)				
15	Cathode B (Digit 1)				
16	Cathode A (Digit 1)				
17	Cathode G(Digit 1)				
18	Cathode F(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	100	mA		
(1/10 Duty Cycle, 0.1ms Pulse Width)	100			
Continuous Forward Current Per Segment	25	mA		
Derating Linear From 25°C Per Segment	0.33	mA/℃		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35°C to +85°C			
Storage Temperature Range	-35°C to +85°C			

Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C

or of temperature unit (during assembly) not over max. temperature rating above.

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

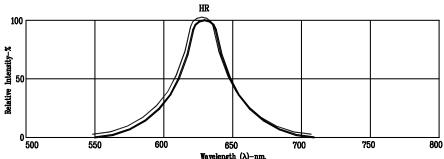
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2400		μcd	I _F =10mA
Peak Emission Wavelength	λρ		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage. Per Segment	V_{F}		2.0	2.6	V	I _F =20mA
Reverse Current, Per Segment	I_R			100	μΑ	$V_R=5V$
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA
(Similar Light Area)						

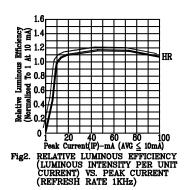
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

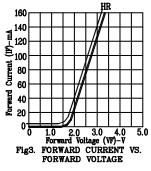
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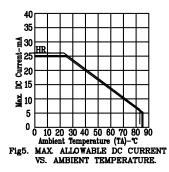
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

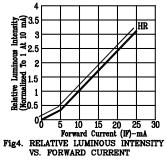
(25°C Ambient Temperature Unless Otherwise Noted)











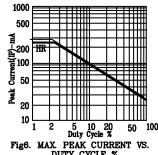


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE 1KHz)

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Mouser Electronics

Authorized Distributor

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