



Spec No.: DS-30-97-186Effective Date: 05/18/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON

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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.

DESCRIPTION

The LTD-6930HR is a 0.56 inch (14.22 mm) digit height LED 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

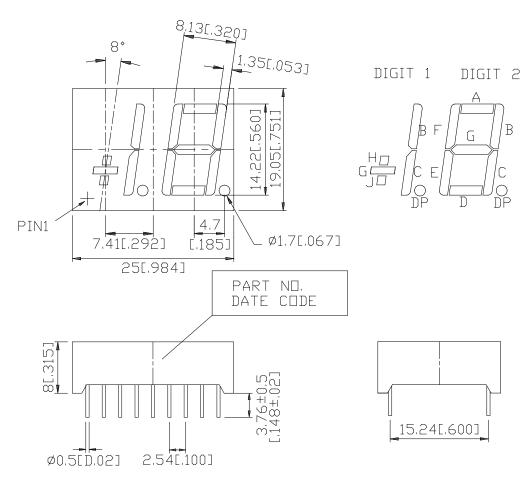
PART NO.	DESCRIPTION		
Hi-Eff. Red	Common Anode		
LTD-6930HR	±1.8 Overflow		

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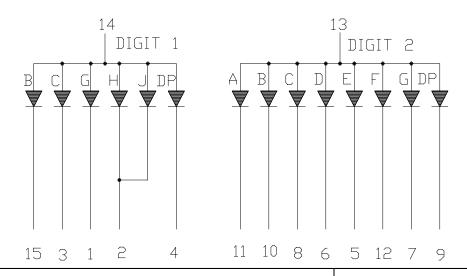
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PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

NO.	CONNECTION						
1	CATHODE	G	(DIGIT 1)				
2	CATHODE	J. H	(DIGIT 1)				
3	CATHODE	С	(DIGIT 1)				
4	CATHODE	D.P.	(DIGIT 1)				
5	CATHODE	Е	(DIGIT 2)				
6	CATHODE	D	(DIGIT 2)				
7	CATHODE	G	(DIGIT 2)				
8	CATHODE	С	(DIGIT 2)				
9	CATHODE	D.P.	(DIGIT 2)				
10	CATHODE	В	(DIGIT 2)				
11	CATHODE	A	(DIGIT 2)				
12	CATHODE	F	(DIGIT 2)				
13	COMMON	ANODE	(DIGIT 2)				
14	COMMON	ANODE	(DIGIT 1)				
15	CATHODE	В	(DIGIT 1)				
16	NO	CONNECTION					
17	NO	CONNECTION					
18	NO	CONNECTION					

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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	0.33	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 below seating plane.				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

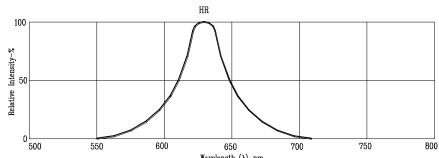
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2400		μcd	I _F =10mA
Peak Emission Wavelength	λр		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	I _F =20mA
Reverse 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.

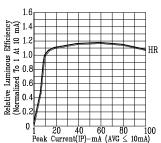
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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

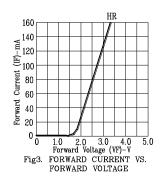


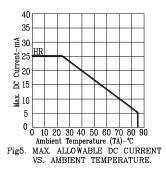
Wavelength (\(\lambda\rangle\)-nm.
Fig1. RELATIVE INTENSITY VS. WAVELENGTH

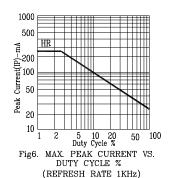


0 1 20 40 60 80 100
Peak Current(IP)-mA (AVG \(\) 10mA)

Fig2. RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT
(REFRESH RATE 1KHz)







NOTE: HR=HI.-EFF.RED

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