



LED Display

Product Data Sheet

LTD-6930HR

Spec No.: DS-30-97-186

Effective Date: 05/18/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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.

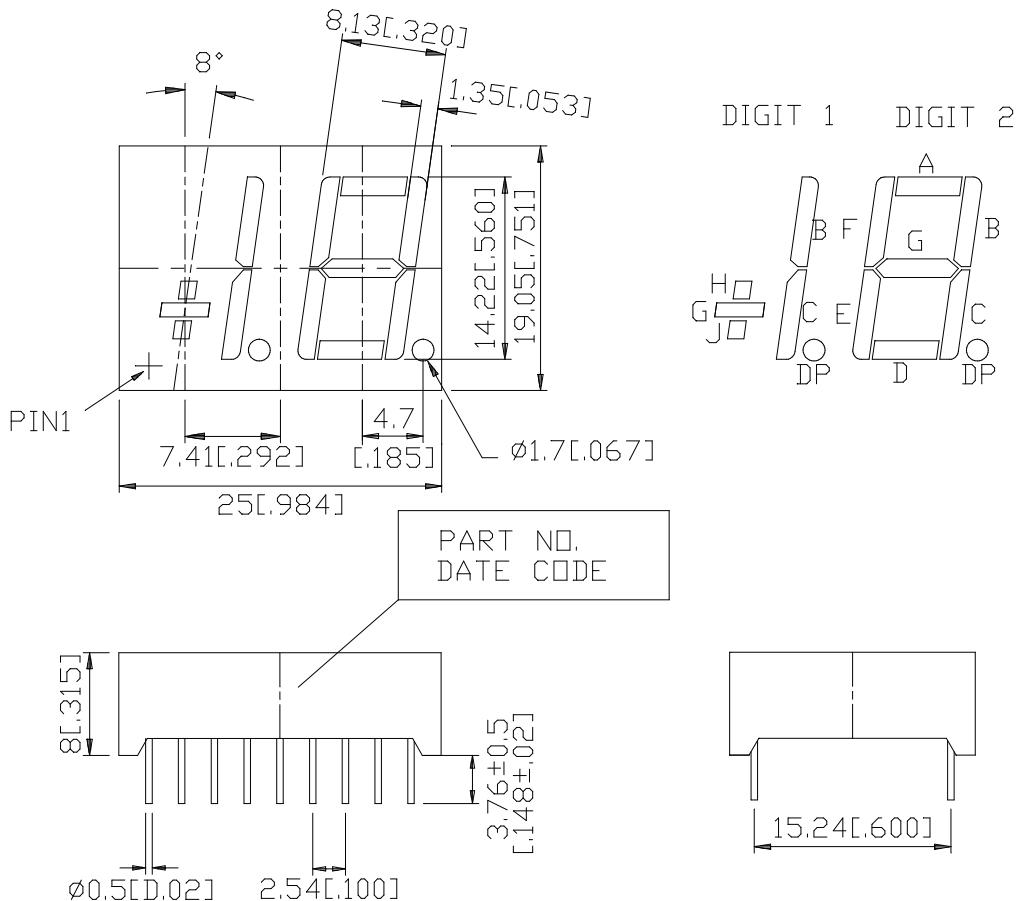
DESCRIPTION

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

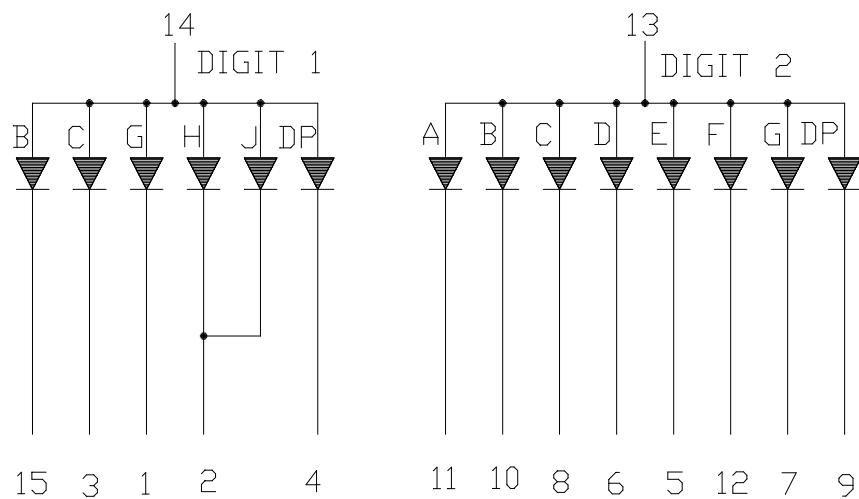
PART NO.	DESCRIPTION
Hi-Eff. Red	Common Anode
LTD-6930HR	±1.8 Overflow

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

NO.	CONNECTION		
1	CATHODE	G	(DIGIT 1)
2	CATHODE	J. H	(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	NO	CONNECTION	
17	NO	CONNECTION	
18	NO	CONNECTION	

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.		

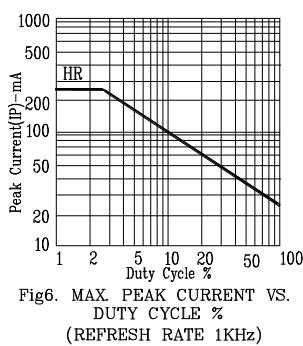
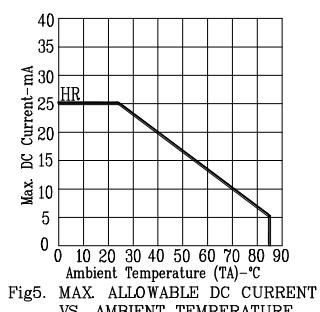
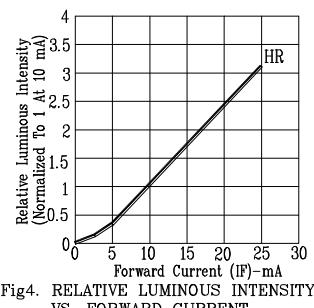
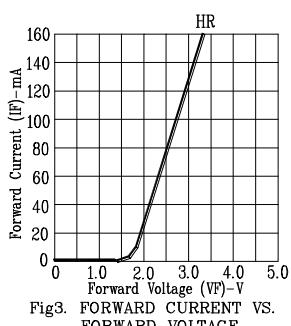
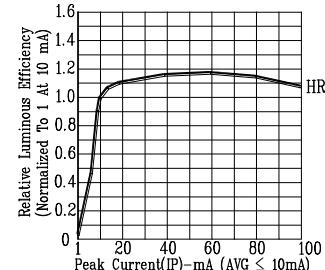
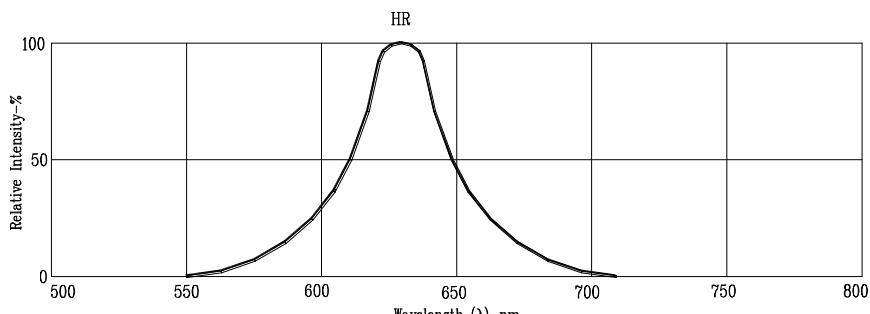
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	800	2400		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λ _d		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	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -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.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE: HR=HI.-EFF.RED