



LED Display

Product Data Sheet

LTC-3710HR

Spec No.: DS-30-96-182

Effective Date: 01/09/2010

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

- * 0.3 INCH (7.6 mm) DIGIT HEIGHT.
- * CONTINUOUS UNIFORM SEGMENTS.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.

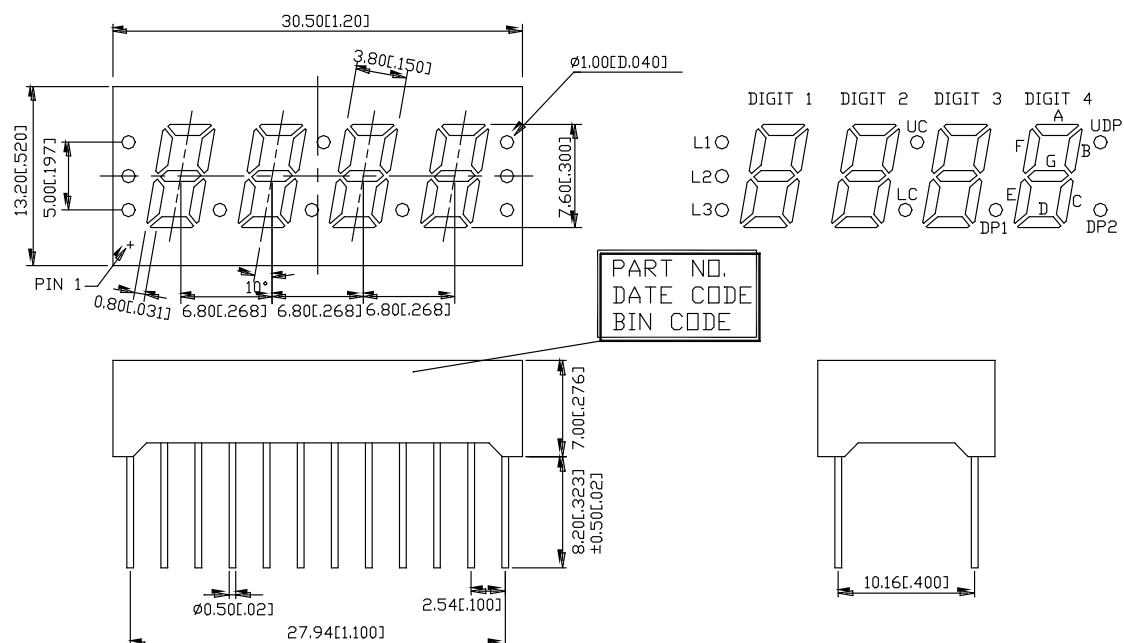
DESCRIPTION

The LTC-3710HR is a 0.3 inch (7.6 mm) height quadruple digit display. The device utilizes high-efficiency red LED chips, which are made from GaAsP on a transparent GaP substrate. High efficiency red displays have red face and red segments.

DEVICE

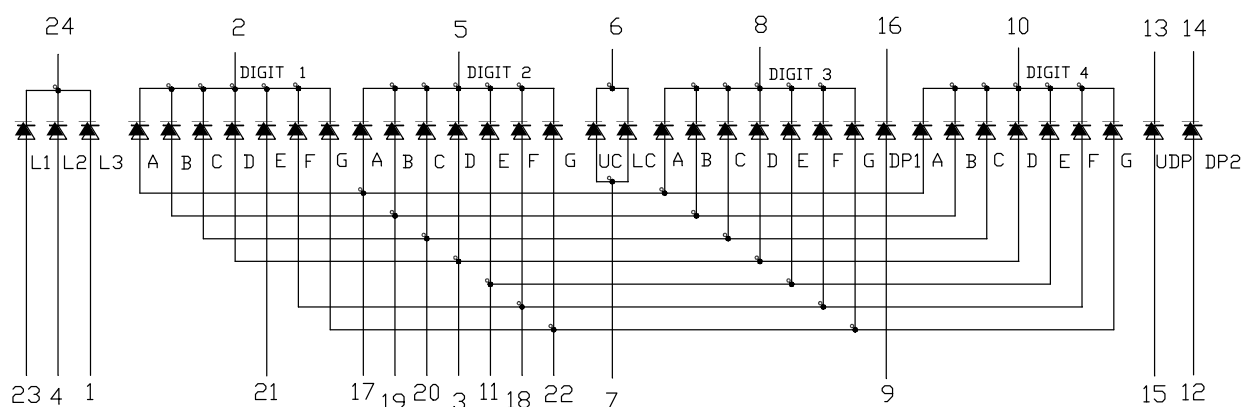
PART NO.	DESCRIPTION
Hi-Eff. Red	Multiplex Common Cathode Rt. Hand Decimal
LTC-3710HR	

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	No	CONNECTION
1	Anode L3	13	Cathode UDP.
2	Common Cathode Digit 1	14	Cathode DP2.
3	Anode D1,D2,D3,D4	15	Anode UDP.
4	Anode L2	16	Cathode DP1
5	Common Cathode Digit 2	17	Anode A1,A2,A3,A4
6	Cathode UC,LC	18	Anode F1,F2,F3,F4
7	Anode UC ,LC	19	Anode B1,B2,B3,B4
8	Common Cathode Digit 3	20	Anode C1,C2,C3,C4
9	Anode DP1	21	Anode E1
10	Common Cathode Digit 4	22	Anode G1,G2,G3,G4
11	Anode E2,E3,E4	23	Anode L1
12	Anode DP2	24	Cathode L1,L2,L3

ABSOLUTE MAXIMUM RATING AT T_A=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 ⁰ C Per Segment	0.28	mA/ ⁰ C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 ⁰ C to +105 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +105 ⁰ C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ⁰ C		

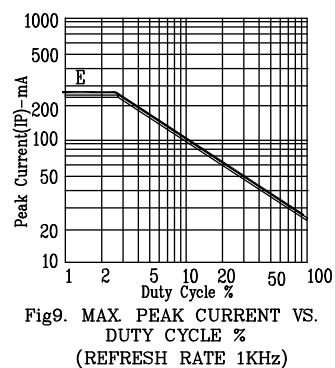
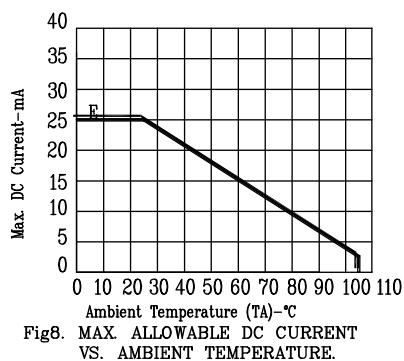
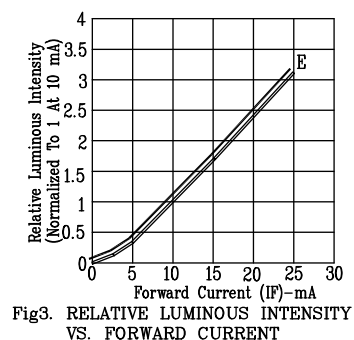
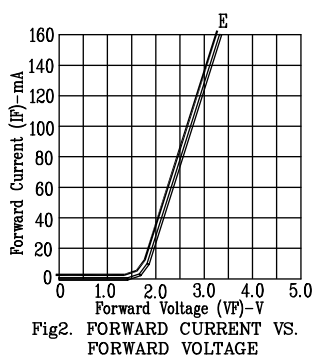
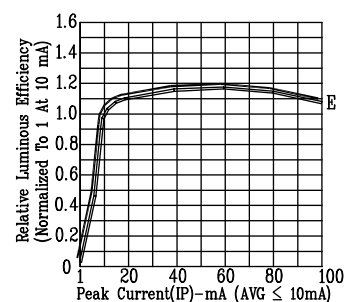
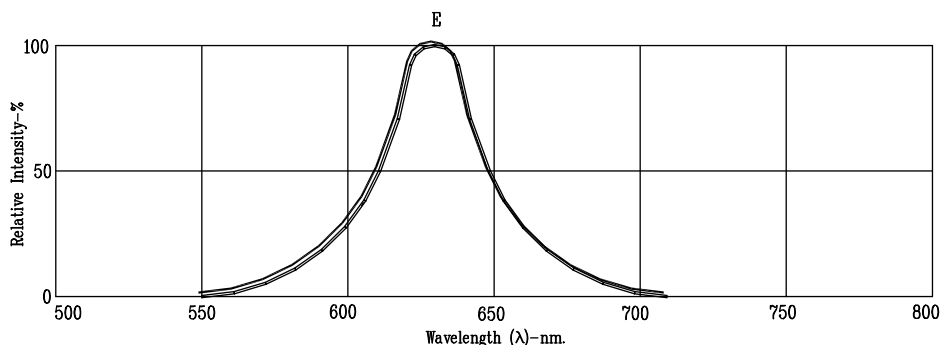
ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _V	800	2000		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 CHARACTERISTICS
CURVES (25°C Ambient Temperature Unless Otherwise Note)**



NOTE: E=RED ORANGE

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