



LED Display

Product Data Sheet

LTC-3710P

Spec No.: DS-30-93-156

Effective Date: 01/12/2010

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

- * 0.3 inch (7.62 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.

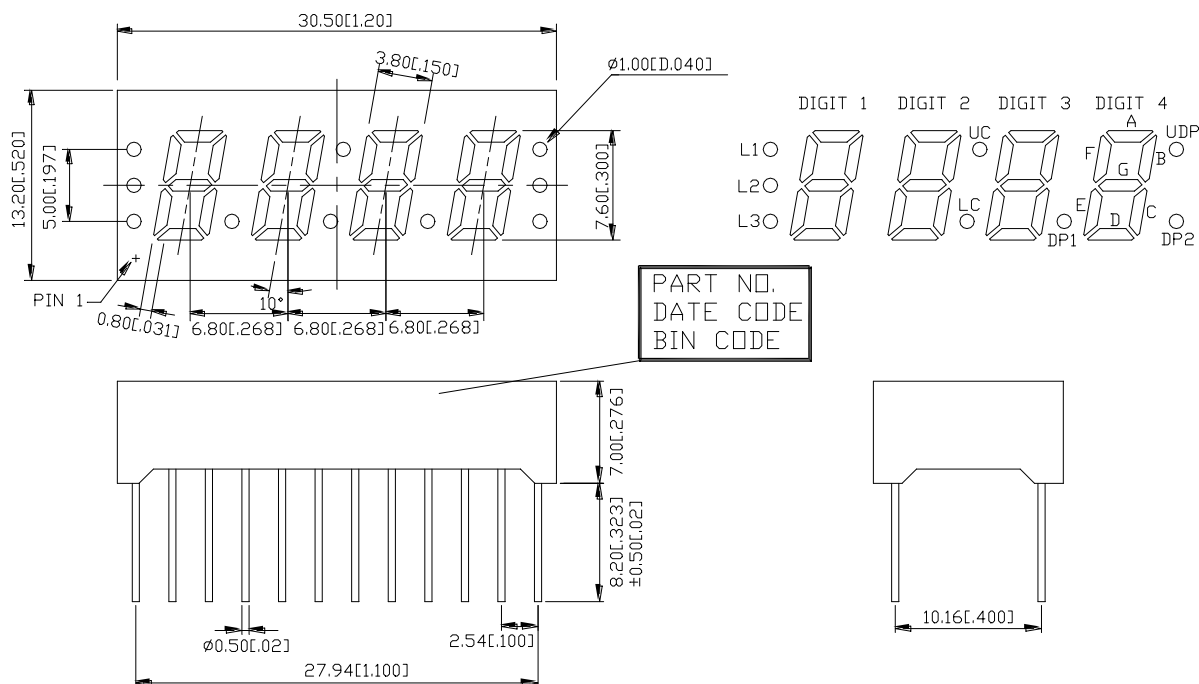
DESCRIPTION

The LTC-3710P is a 0.3inch (7.62mm) digit height quadruple 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

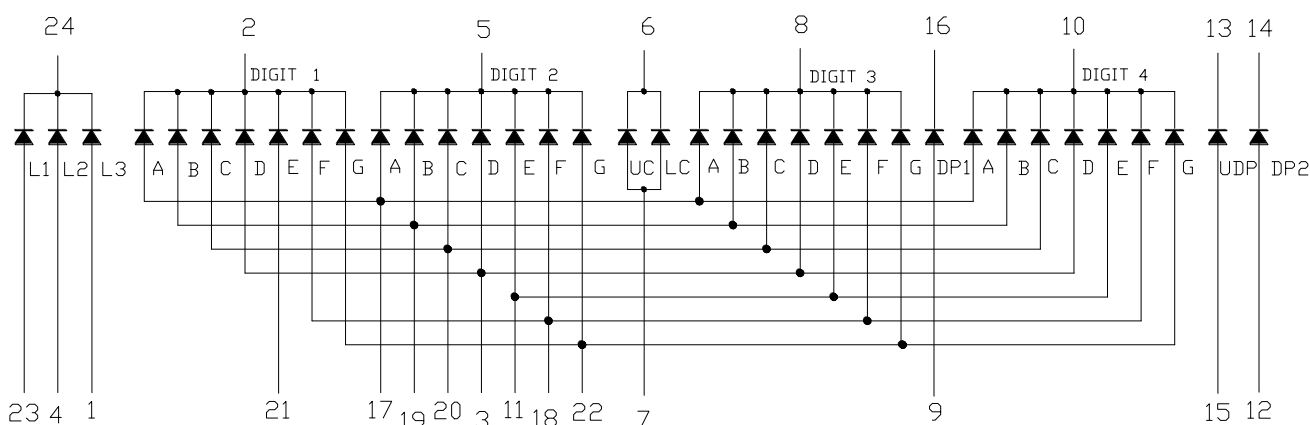
PART NO.	DESCRIPTION
Bright red	Multiplex Common Cathode Rt. Hand Decimal
LTC-3710P	

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 1D,2D,3D,4D	15	ANODE UDP
4	ANODE L2	16	CATHODE DP1
5	COMMON CATHODE DIGIT 2	17	ANODE 1A,2A,3A,4A
6	CATHODE UC,LC	18	ANODE 1F,2F,3F,4F
7	ANODE UC,LC	19	ANODE 1B,2B,3B,4B
8	COMMON CATHODE DIGIT 3	20	ANODE 1C,2C,3C,4C
9	ANODE DP1	21	ANODE 1E
10	COMMON CATHODE DIGIT 4	22	ANODE 1G,2G,3G,4G
11	ANODE 2E,3E,4E	23	ANODE L1
12	ANODE DP2	24	CATHODE L1,L2,L3

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°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	200	650		μcd	I _F =10mA
Peak Emission Wavelength	λ _p		697		nm	I _F =20mA
Spectral Line Half-Width	Δλ		90		nm	I _F =20mA
Dominant Wavelength	λ _d		657		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.1	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)

