Property of Lite-On Only

FEATURES

- *0.52 inch (13.2 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 LTC-5336HR is a 0.52 inch (13.2 mm) digit height triple 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.

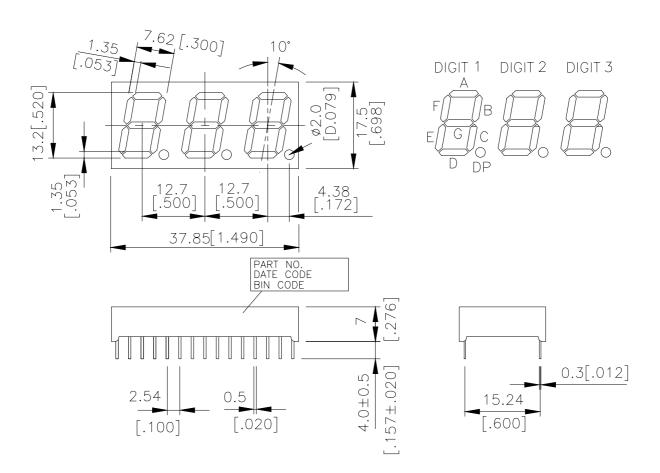
DEVICE

PART NO.	DESCRIPTION
Hi-Eff. Red	Common Cathode
LTC-5336HR	Rt. Hand Decimal

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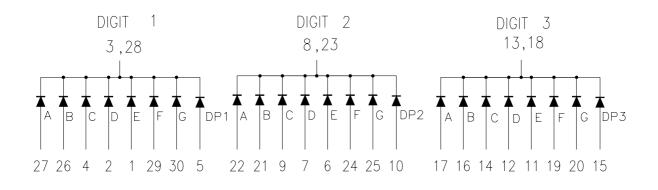
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PACKAGE DIMENSIONS



NOTES: 1.All dimensions are in millimeters. Tolerances are \pm 0.25 mm (0.01") unless otherwise noted. 2.Pin tip's shift tolerance is \pm 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

NO.	CONNECTION	NO.	CONNECTION		
1	ANODE E (DIGIT 1)	16	ANODE B (DIGIT 3)		
2	ANODE D (DIGIT 1)	17	ANODE A (DIGIT 3)		
3	COMMON CATHODE (DIGIT 1)	18	COMMON CATHODE (DIGIT 3)		
4	ANODE C (DIGIT 1)	19	ANODE F (DIGIT 3)		
5	ANODE D.P. (DIGIT 1)	20	ANODE G (DIGIT 3)		
6	ANODE E (DIGIT 2)	21	ANODE B (DIGIT 2)		
7	ANODE D (DIGIT 2)	22	ANODE A (DIGIT 2)		
8	COMMON CATHODE (DIGIT 2)	23	COMMON CATHODE (DIGIT 2)		
9	ANODE C (DIGIT 2)	24	ANODE F (DIGIT 2)		
10	ANODE D.P. (DIGIT 2)	25	ANODE G (DIGIT 2)		
11	ANODE E (DIGIT 3)	26	ANODE B (DIGIT 1)		
12	ANODE D (DIGIT 3)	27	ANODE A (DIGIT 1)		
13	COMMON CATHODE (DIGIT 3)	28	COMMON CATHODE (DIGIT 1)		
14	ANODE C (DIGIT 3)	29	ANODE F (DIGIT 1)		
15	ANODE D.P.(DIGIT 3)	30	ANODE G (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 (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 +105°C		
Storage Temperature Range	-35°C to +105°C		

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

or temperature of 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	2200		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	2.6	V	I _F =20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		I _F =10mA

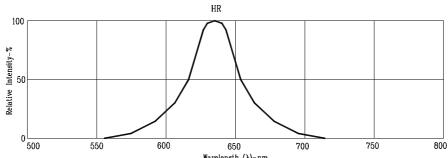
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

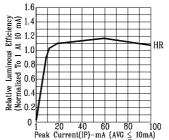
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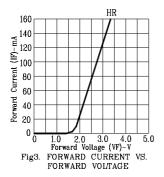
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)





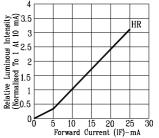
0 1 20 40 60 80 100 Peak Current(IP)-mA (AVG ≤ 10mA) RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)



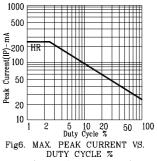
40 35 ¥ 30 10 HR 25 HR 20 음 15 01 ¥. 0 0 10 20 30 40 50 60 70 80 90 100 110 Ambient Temperature (TA)-°C MAX. ALLOWABLE DC CURRENT

VS. AMBIENT TEMPERATURE.

NOTE: HR=HI.-EFF.RED



Forward Current (IF)-mA
Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



(REFRESH RATE 1KHz)

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