



Spec No.: DS-30-99-669 Effective Date: 06/20/2000

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

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FEATURES

- *2.3- inch (57.0- 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 LTS-23305HR is a 2.3-inch (57.0-mm) digit height single digit seven-segment display. This device utilizes hi-eff. red LED chips, which are made from GaAsP on a transparent GaP substrate, and has a red face and red segments.

DEVICE

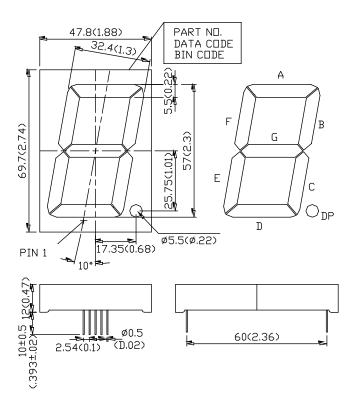
PART NO.	DESCRIPTION				
HI-EFF. RED	COMMON CATHODE				
LTS-23305HR	RT. HAND DECIMAL				

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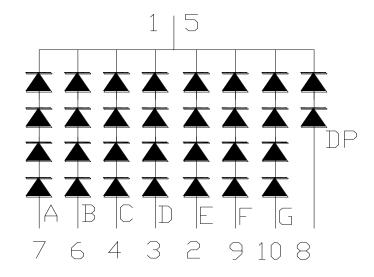
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PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerance is \pm 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION					
1	COMMON CATHODE					
2	ANODE E					
3	ANODE D					
4	ANODE C					
5	COMMON CATHODE					
6	ANODE B					
7	ANODE A					
8	ANODE DP					
9	ANODE F					
10	ANODE G					

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	170(120)	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	20(10)	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[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

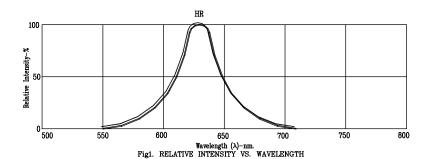
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	5000	10000		μcd	I _F =10mA
Peak Emission Wavelength	λр		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage Per Segment	VF		8.0 (4.0)	10.4 (5.2)	V	I=20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =20V(10V)
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

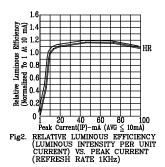
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

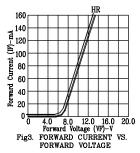
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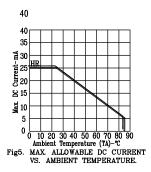
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

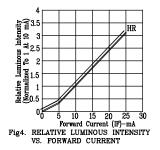
(25°C Ambient Temperature Unless Otherwise Noted)

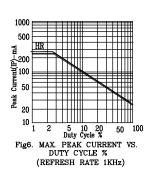












NOTE: HR=HI.-EFF.RED

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