

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











Spec No.: DS-30-98-247 Effective Date: 04/21/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-on Only

FEATURES

- *5-INCH (127.0-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-50301HRB is a 5-inch (127.0-mm) height single digit seven-segment display. This device utilizes hi-eff. red LED chips, which are made from GaAsP on GaP substrate, and has a black face and red segments.

DEVICE

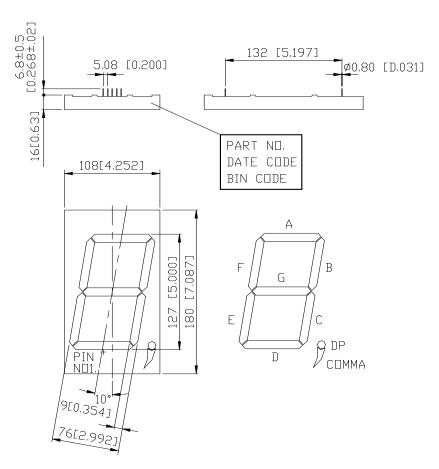
PART NO.	DESCRIPTION		
HI-EFF. RED			
LTS-50301HRB	Common Cathode		

PAGE: of 5 PART NO.:LTS-50301HRB 1

LITE-ON ELECTRONICS, INC.

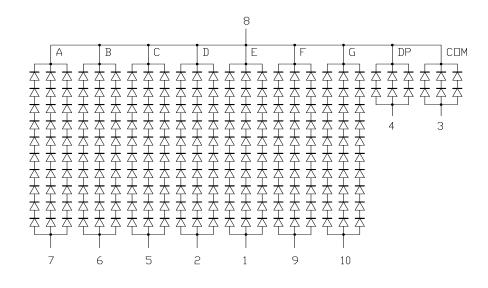
Property of Lite-on Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



PART NO.:LTS-50301HRB PAGE: 2 of 5

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-on Only

PIN CONNECTION

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

PAGE: 3 of 5 PART NO.:LTS-50301HRB



LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-on Only

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Segment	1200	mW			
Peak Forward Current Per Segment	180	mA			
(1/10 Duty Cycle, 0.1ms Pulse Width)					
Continuous Forward Current Per Segment	60	mA			
Derating Linear From 25°C Per Segment	0.72	mA/°C			
Reverse Voltage Per Segment	50	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

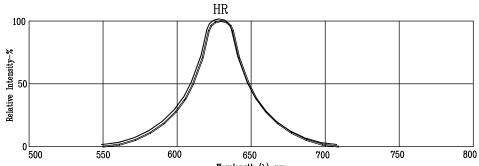
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	21	60		mcd	I _F =30mA
Peak Emission Wavelength	λρ		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage Per Segment	VF		20 (4.0)	26 (5.2)	V	I=60mA
Reverse Current Per Segment	Ir			300	μΑ	V _R =50V
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'clariage) eye-response curve.

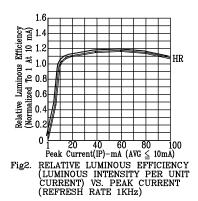
PART NO.:LTS-50301HRB PAGE: of 5

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

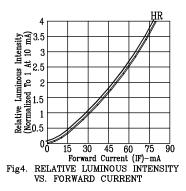
(25°C Ambient Temperature Unless Otherwise Noted)

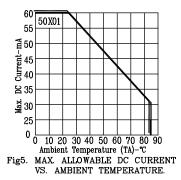


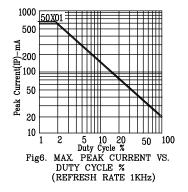
 $\label{eq:wavelength} \mbox{Wavelength } (\lambda) - nm. \\ \mbox{Fig1. RELATIVE INTENSITY VS. WAVELENGTH}$



480 420 360 300 180 Forward 120 60 10 20 30 40 5
Forward Voltage (VF)-V
FORWARD CURRENT VS.
FORWARD VOLTAGE Fig3.







NOTE : HR=HI.EFF.RED

PART NO.:LTS-50301HRB PAGE: 5 of