



LED Display Product Data Sheet LTS-50301HRB

Spec No.: DS-30-98-247

Effective Date: 04/21/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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.

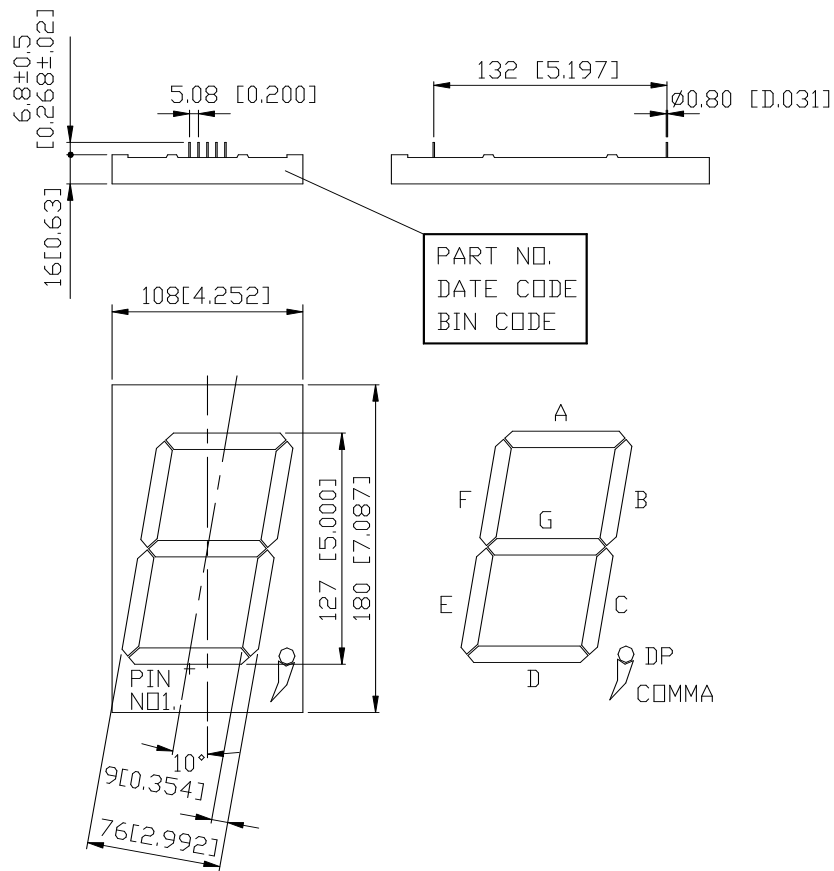
DESCRIPTION

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

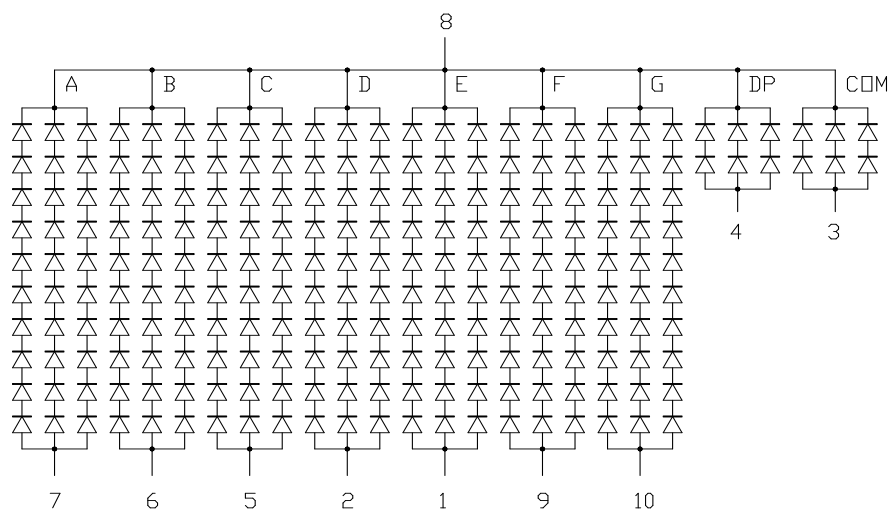
PART NO.	DESCRIPTION
HI-EFF. RED	Common Cathode
LTS-50301HRB	

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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

ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	1200	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	180	mA
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	I _v	21	60		mcd	I _F =30mA
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		20 (4.0)	26 (5.2)	V	I _F =60mA
Reverse Current Per Segment	I _R			300	μA	V _R =50V
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'clariage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

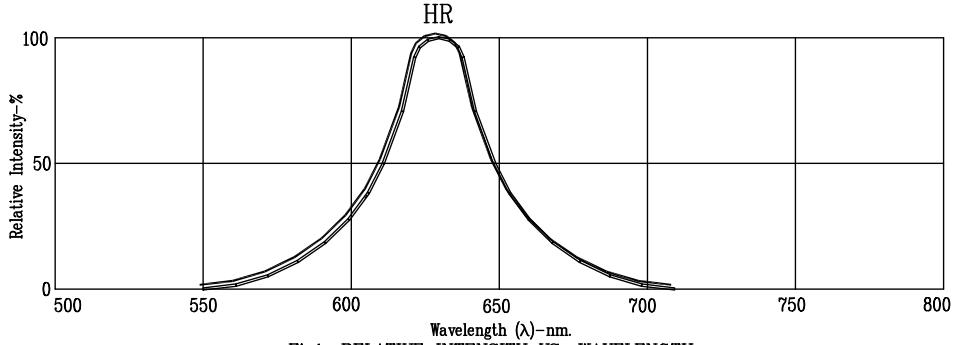


Fig1. RELATIVE INTENSITY VS. WAVELENGTH

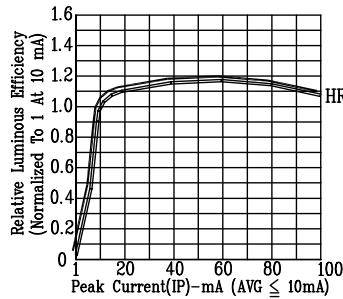


Fig2. RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)

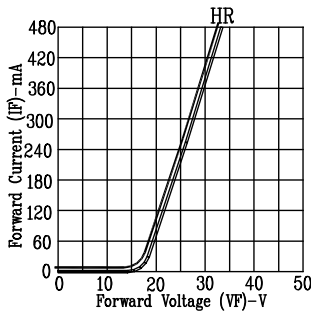


Fig3. FORWARD CURRENT VS. FORWARD VOLTAGE

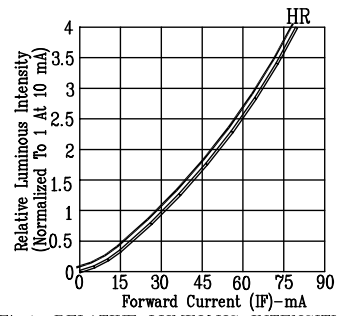


Fig4. RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

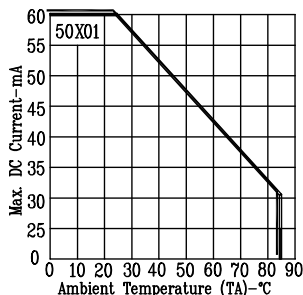


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.

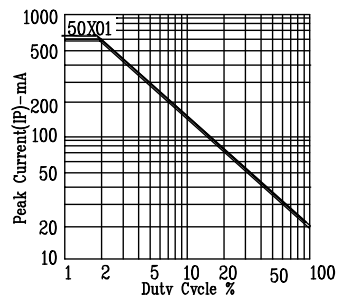


Fig6. MAX. PEAK CURRENT VS. DUTY CYCLE (REFRESH RATE 1KHz)

NOTE : HR=HI.EFF.RED

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