



Spec No.: DS-30-98-250 Effective Date: 04/21/2000 Revision: -



BNS-OD-FC001/A4

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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-50801HRB is a 5-inch (127.0-mm) digit 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-50801HRB	Common Anode			

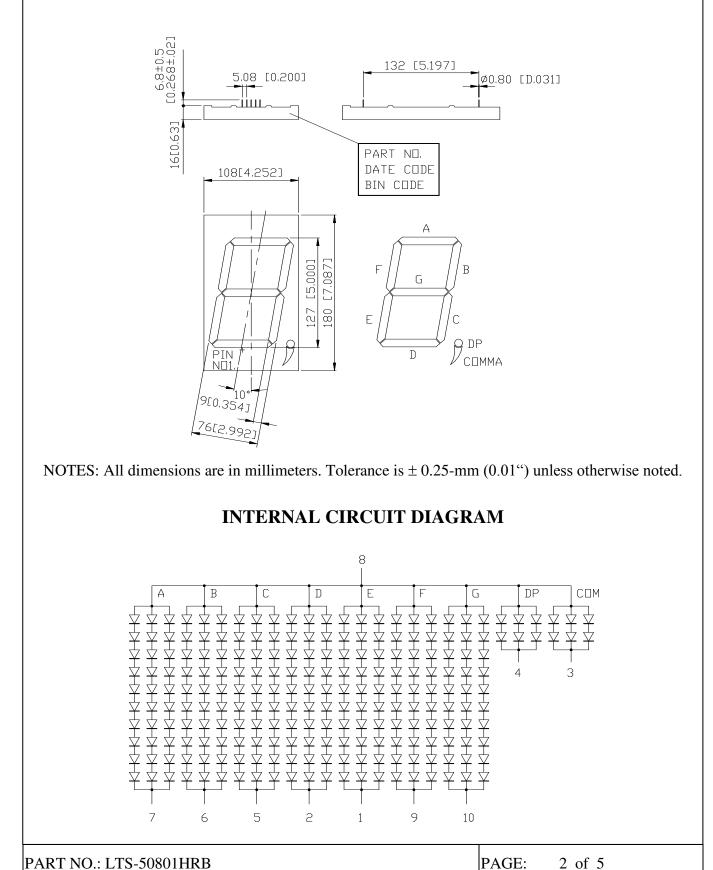
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PACKAGE DIMENSIONS





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PIN CONNECTION

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

PART NO.: LTS-50801HRB

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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 ⁰ C Per Segment	0.72	mA/ ⁰ C		
Reverse Voltage Per Segment	50	V		
Operating Temperature Range	-35° C to $+85^{\circ}$ C			
Storage Temperature Range $-35^{\circ}C$ to $+85^{\circ}C$				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ^o C				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	21	60		mcd	IF=30mA
Peak Emission Wavelength	λp		635		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		623		nm	IF=20mA
Forward Voltage Per Segment	V_{F}		20 (4.0)	26 (5.2)	V	IF=60mA
Reverse Current Per Segment	Ir			300	μΑ	V _R =50V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=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

