



Spec No.: DS-30-97-151 Effective Date: 04/21/2000 Revision: -



BNS-OD-FC001/A4

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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.

DESCRIPTION

The LTS-546AHR is a 0.52 -inch (13.2 -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 red face and red segments.

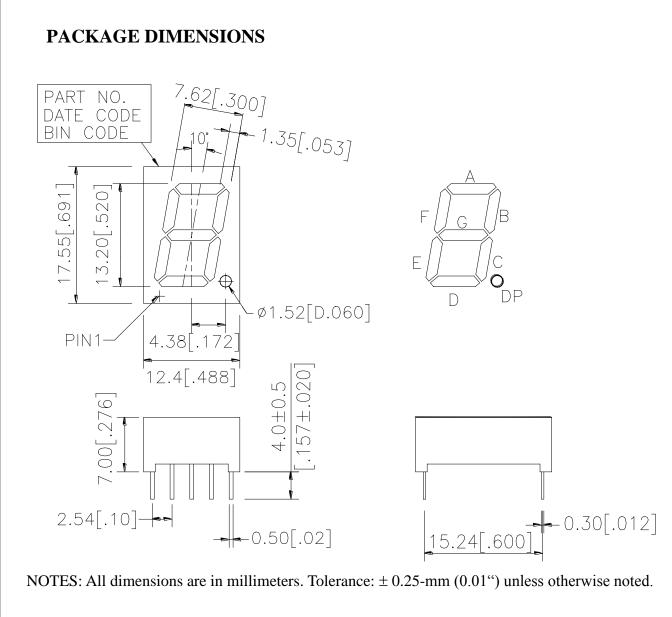
DEVICE

PART NO.	DESCRIPTION
HI-EFF. RED	Common Anode
LTS-546AHR	Rt. Hand Decimal

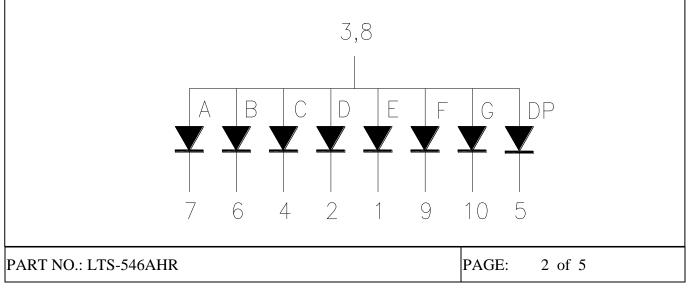
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INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

NOTE: PIN 3 & PIN 8 ARE INTERNALLY CONNECTED.

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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 ⁰ C Per Segment	0.33	mA/ ⁰ C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range $-35^{\circ}C$ 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	870	2200		μcd	IF=10mA
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	VF		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	Vr=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

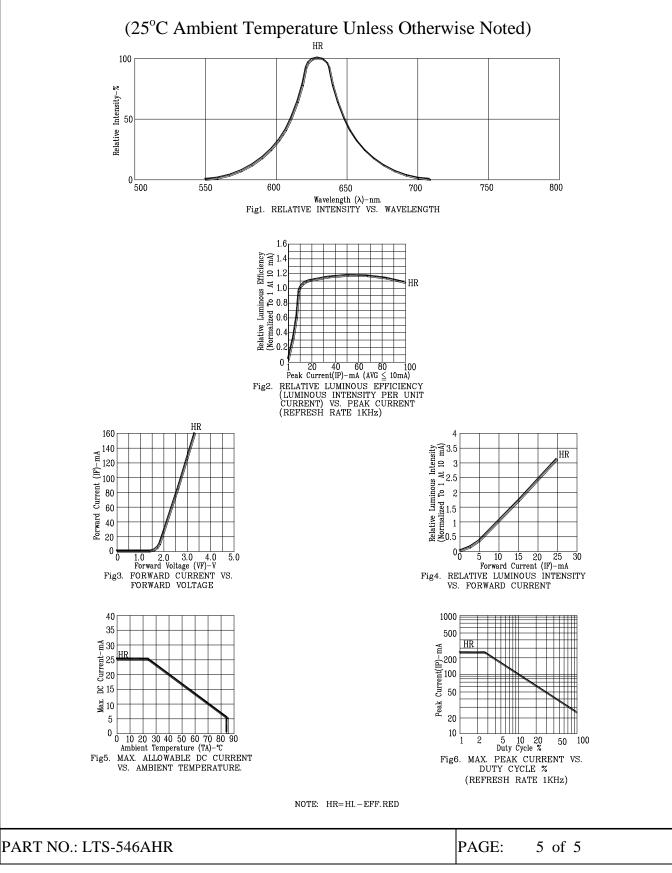
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commision internationale De L'Eclariage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



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