



Spec No.: DS-30-98-046 Effective Date: 11/09/2000 Revision: -



BNS-OD-FC001/A4

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LITEON LITE-ON ELECTRONICS, INC.

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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-548AHR is a 0.52 inch (13.2 mm) digit height single digit seven-segment display. This device utilizes high efficiency red LED chips, which are made from GaAsP on a transparent GaP substrate, and has a red face and red segments.

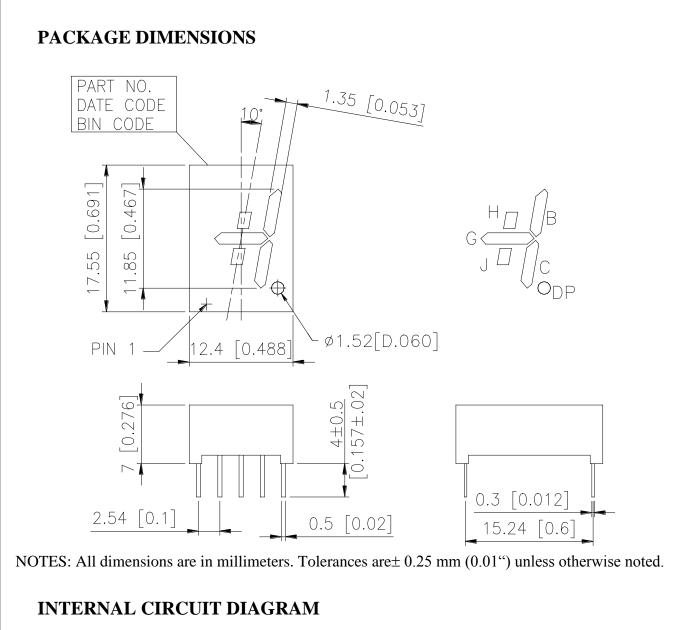
DEVICE

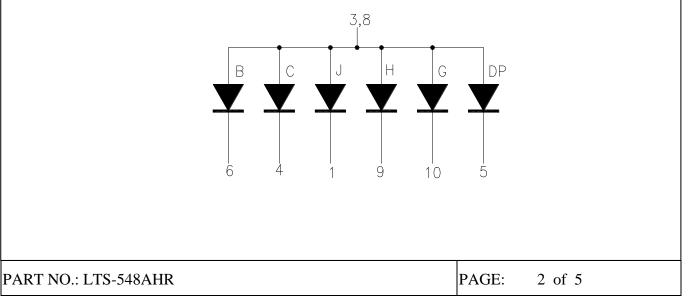
PART NO.	DESCRIPTION			
Hi-Eff. Red	Common Anode			
LTS-548AHR	Rt. Hand Decimal			



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PIN CONNECTION

No.	CONNECTION			
1	CATHODE J			
2	NO CONNECTION			
3	COMMON ANODE			
4	CATHODE C			
5	CATHODE D.P.			
6	CATHODE B			
7	NO CONNECTION			
8	COMMON ANODE			
9	CATHODE H			
10	CATHODE G			

PART NO.: LTS-548AHR

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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°C Per Segment	0.33	MA/°C			
Reverse Voltage Per Segment	5	V			
Operating Temperature Range	-35° C to $+85^{\circ}$ C				
Storage Temperature Range	-35° C to $+85^{\circ}$ C				
Solder Temperature: max 260° C for max 3sec at 1.6mm below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

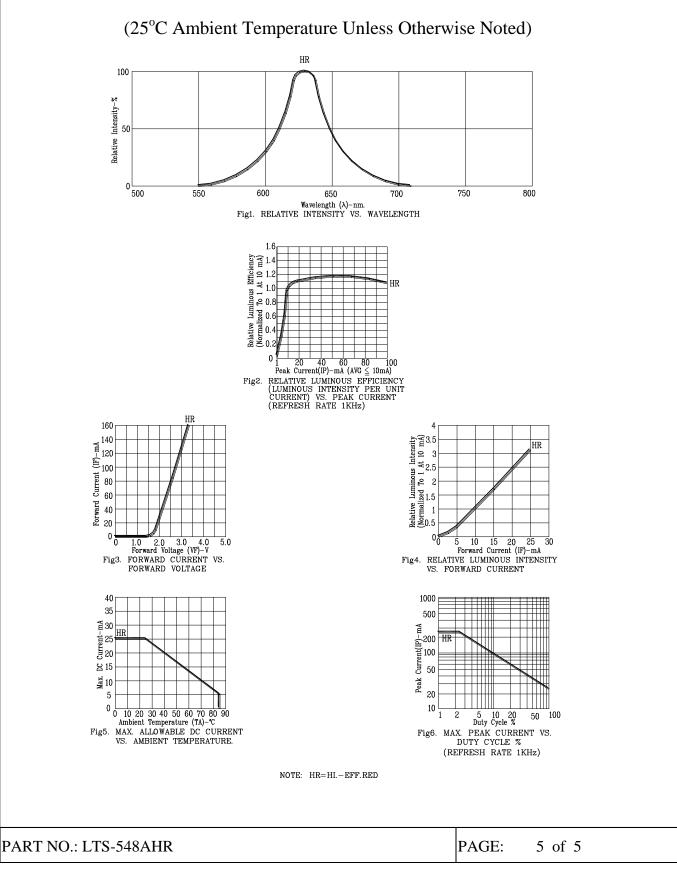
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2200		μcd	IF=10mA
Peak Emission Wavelength	λp		635		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		623		nm	IF=20mA
Forward Voltage Per Segment	VF		2	2.6	V	IF=20mA
Reverse Current Per Segment	Ir			100	μΑ	V _R =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'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



BNS-OD-C131/A4