



Spec No.: DS-30-98-263 Effective Date: 05/03/2000 Revision: -



BNS-OD-FC001/A4

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# LITEON LITE-C

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## **FEATURES**

\* 0.56-INCH (14.2-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.
\* EASY MOUNTING ON P.C. BOARD OR SOCKET.

## DESCRIPTION

The LTS-6975HR is a 0.56-inch (14.2-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-6975HR	±1. Overflow		

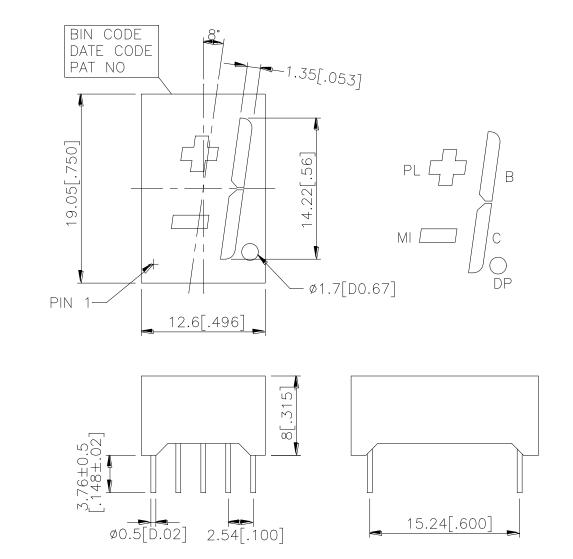
PAGE: 1 of 5



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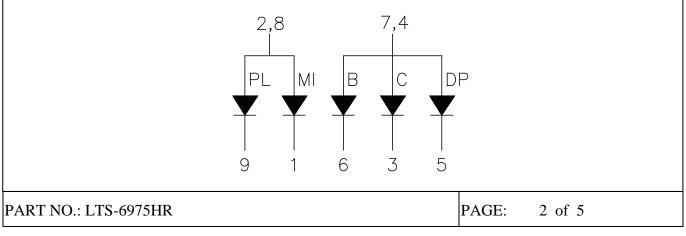
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#### **PACKAGE DIMENSIONS**



NOTES: All dimensions are in millimeters. Tolerance:  $\pm 0.25$ -mm (0.01") unless otherwise noted.

## **INTERNAL CIRCUIT DIAGRAM**



BNS-OD-C131/A4



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# **PIN CONNECTION**

No.	CONNECTION
1	CATHODE MI.
2	ANODE PL. MI.
3	CATHODE C
4	ANODE B,C,DP
5	CATHODE DP
6	CATHODE B
7	ANODE B,C,DP
8	ANODE PL. MI.
9	CATHODE PL.
10	NO CONNECTION

PART NO.: LTS-6975HR

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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 <sup>°</sup> C Per Segment	0.33	mA/ <sup>0</sup> 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 <sup>0</sup> C					

# ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	800	2400		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	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

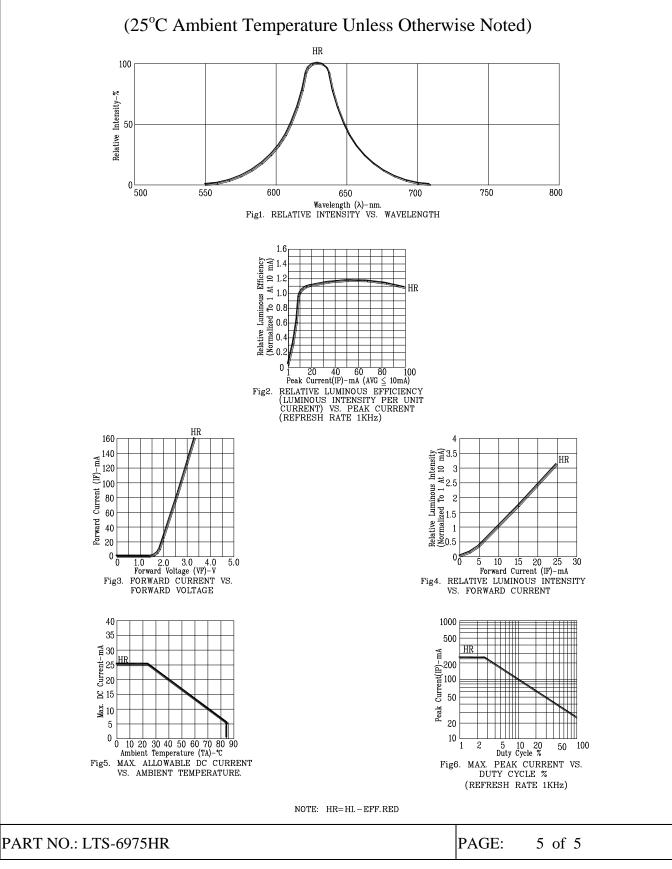
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclariage) eye-response curve.

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## **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



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