



Spec No.: DS-30-94-191 Effective Date: 12/21/2000 Revision: -



BNS-OD-FC001/A4

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FEATURES

- * 4 inch (101.6 mm) MATRIX HEIGHT.
- * LOW POWER REQUIREMENT.
- * SINGLE PLANE, WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY.
- * 5x7 ARRAY WITH X-Y SELECT.
- * COMPATIBLE WITH USASCLL AND EBCDIC CODES.
- * STACKABLE HORIZONTALLY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTP-4157AHR is a 4 inch (101.6 mm) matrix height 5x7 dot matrix 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	Cathode Column		
LTP-4157AHR	Anode Row		

PART NO.: LTP-4157AHR

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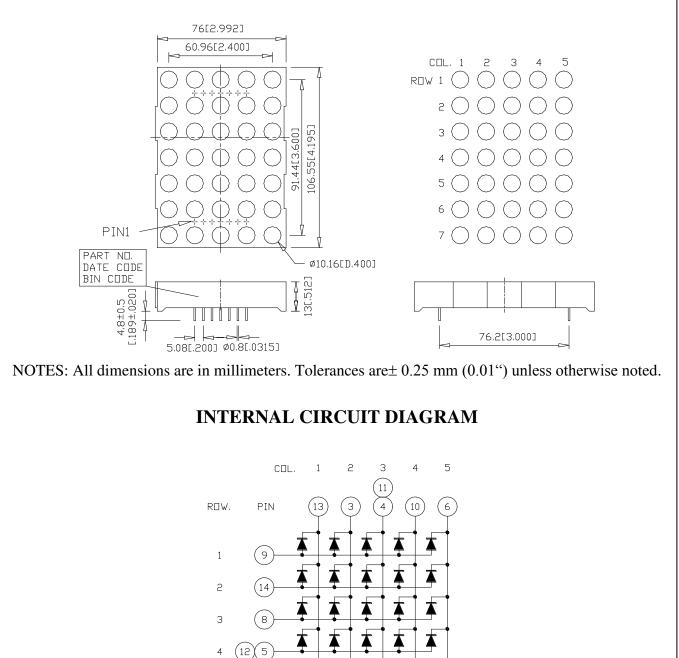
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PACKAGE DIMENSIONS



" Stands For 2 Chips in Series.

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PART NO.: LTP-4157AHR

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The Sign "

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PIN CONNECTION

No.	CONNECTION				
1	ANODE ROW 5				
2	ANODE ROW 7				
3	CATHODE COLUMN 2				
4	CATHODE COLUMN 3				
5	ANODE ROW 4				
6	CATHODE COLUMN 5				
7	7 ANODE ROW 6				
8	ANODE ROW 3				
9	ANODE ROW 1				
10	CATHODE COLUMN 4				
11	CATHODE COLUMN 3				
12	ANODE ROW 4				
13	CATHODE COLUMN 1				
14	ANODE ROW 2				

PART NO.: LTP-4157AHR

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ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT				
Average Power Dissipation Per Dot	64	mW				
Peak Forward Current Per Dot	90	mA				
Average Forward Current Per Dot	11	mA				
Derating Linear From 25 ⁰ C Per Dot	0.15	mA/ ⁰ C				
Reverse Voltage Per Dot	10	V				
Operating Temperature Range	-35° C to $+85^{\circ}$ C					
Storage Temperature Range	rage 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 T_A=25°C

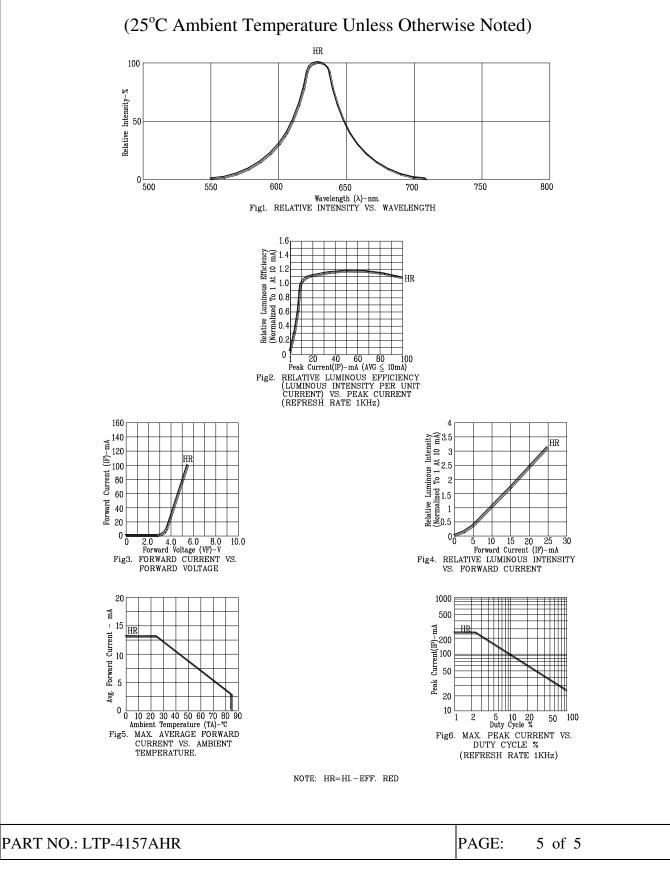
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	5100	9600		μcd	Ip=80mA
						1/16DUTY
Peak Emission Wavelength	λp		635		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		623		nm	IF=20mA
Forward Voltage any Dot	VF		4	5.2	V	IF=20mA
			5.2	6.8	V	IF=80mA
Reverse Current any Dot	Ir			100	μΑ	V _R =10V
Luminous Intensity Matching Ratio	Iv-m			0.1		I _p =80mA
				2:1		1/16DUTY

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



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