

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

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		

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LITE-ON ELECTRONICS, INC.

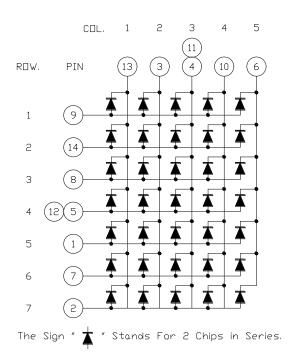
Property of Lite-On Only

PACKAGE DIMENSIONS 76[2.992] 60.96[2.400] CDL. 1 RDW 1 () PIN1 PART NO. Ø10.16[D.400] DATE CODE BIN CODE 131.512] 4,8±0,5 [,189±,020] 76.2[3.000]

NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

5.08[.200] Ø0.8[.0315]

INTERNAL CIRCUIT DIAGRAM



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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	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 PAGE: 3 of 5

LITEON LITE-ON ELECTRONICS, INC.

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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 ^o 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	-35°C to +85°C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

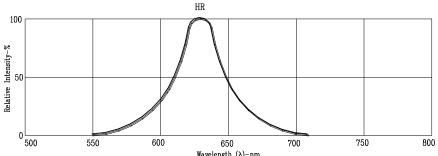
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
	Iv	5100	9600		μcd	I _p =80mA
Average Luminous Intensity						1/16DUTY
Peak Emission Wavelength	λρ		635		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		623		nm	I _F =20mA
Forward Voltage any Dot	VF		4	5.2	V	I _F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

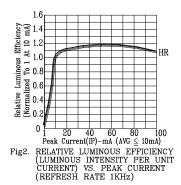
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

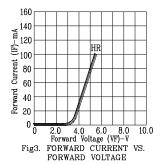
PAGE: 4 of 5 PART NO.: LTP-4157AHR

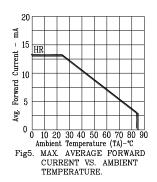
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)





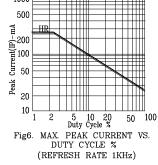




4

William Street Stree

VS. FORWARD CURRENT



NOTE: HR=HI.-EFF. RED

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