

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-30-97-210 Effective Date: 06/29/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *2.0 inch (50.8 mm) MATRIX HEIGHT.
- *LOW POWER REQUIREMENT.
- * SINGLE PLANE, WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *5×7 ARRAY WITH X-Y SELECT.
- *COMPATIBLE WITH USASCII AND EBCDIC CODES.
- *STACKABLE HORIZONTALLY.
- *CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTP-2057AG is a 2.0 inch (50.8 mm) matrix height 5x7 dot matrix display. This device utilizes Green LED chips, which are made from GaP on GaP substrate, and has a gray face and white dot color.

DEVICE

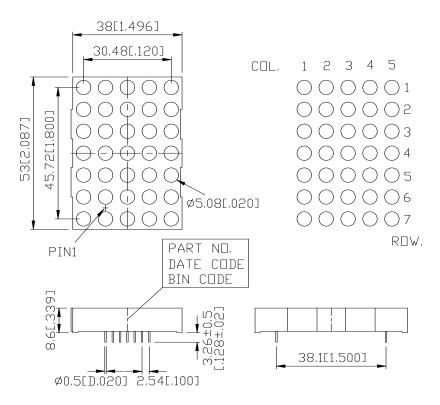
PART NO.	DESCRIPTION			
Green	ANODE COLUMN			
LTP-2057AG	CATHODE ROW			

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LITE-ON ELECTRONICS, INC.

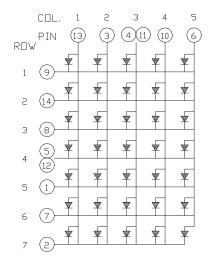
Property of Lite-On Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

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

NOTES: 1. Pin 4 & 11 are internally connected.

2. Pin 5 & 12 are internally connected.

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Average Power Dissipation Per Dot	36	mW			
Peak Forward Current Per Dot	100	mA			
Average Forward Current Per Dot	13	mA			
Derating Linear From 25 [°] C Per Dot	0.17	mA/°C			
Reverse Voltage Per Dot	5	V			
Operating Temperature Range	-35°C to +85°C				
Storage Temperature Range	-35°C to +85°C				
Solder Temperature: max 260°C for max 3sec at 1.6mm[1/16inch] below seating plane.					

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

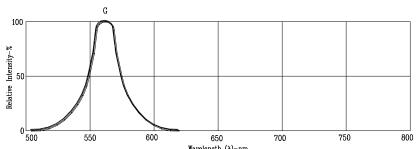
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Avenue of Lympin and Tutangity	Iv	1700	4800		μcd	I _p =80mA
Average Luminous Intensity						1/16Duty
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
	VF		2.1	2.6	* 7	I _F =20mA
Forward Voltage any Dot			3.0	3.7	V	IF=80mA
Reverse Current any Dot	IR			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =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.

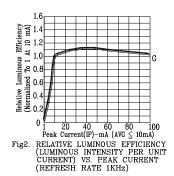
PAGE: PART NO.: LTP-2057AG 4 of 5 Property of Lite-On Only

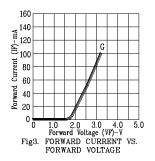
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

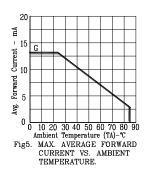
(25°C Ambient Temperature Unless Otherwise Noted)

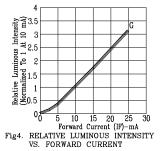


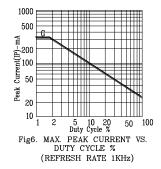
 $\label{eq:wavelength} \begin{tabular}{lll} Wavelength & (λ)-nm. \\ Fig1. & RELATIVE & INTENSITY & VS. & WAVELENGTH \\ \end{tabular}$











NOTE: G=GREEN

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