

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











Spec No.: DS-30-98-285 Effective Date: 12/21/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- * 2.3 inch (58.42 mm) MATRIX HEIGHT.
- * LOW POWER REQUIREMENT.
- * SINGLE PLANE, WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY.
- * 5x8 ARRAY WITH X-Y SELECT.
- * COMPATIBLE WITH USASCLL AND EBCDIC CODES.
- * STACKABLE HORIZONTALLY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTP-2558AA is a 2.3 inch (58.42 mm) matrix height 5x8 dot matrix display. This device is multicolor applicable display, which has gray face and white dot color. The red orange LED chips are made from GaAsP on a transparent GaP substrate. The green LED chips are made from GaP on a transparent GaP substrate.

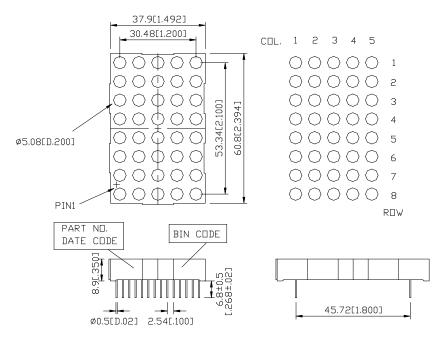
DEVICE

PART NO.	DESCRIPTION				
Red Orange & Green	Cathode Column				
LTP-2558AA	Anode Row				

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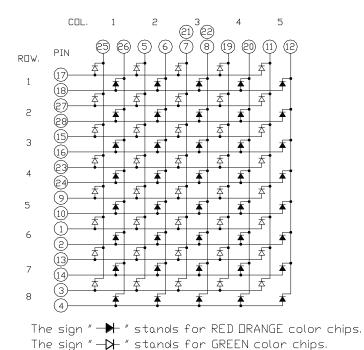
Property of Lite-On Only

PACKAGE DIMENSIONS



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

INTERNAL CIRCUIT DIAGRAM



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LITEON LITE-ON ELECTRONICS, INC.

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PIN CONNECTION

No.	CONNECTION		CONNECTION
1	ANODE ROW 6 (GREEN)	15	ANODE ROW 3 (GREEN)
2	ANODE ROW 6 (RED ORANGE)	16	ANODE ROW 3 (RED ORANGE)
3	ANODE ROW 8 (GREEN)	17	ANODE ROW 1 (GREEN)
4	ANODE ROW 8 (RED ORANGE)	18	ANODE ROW 1 (RED ORANGE)
5	CATHODE COLUMN 2 (GREEN)	19	CATHODE COLUMN 4 (GREEN)
6	CATHODE COLUMN 2 (RED ORANGE)	20	CATHODE COLUMN 4 (RED ORANGE)
7	CATHODE COLUMN 3 (GREEN)	21	CATHODE COLUMN 3 (GREEN)
8	CATHODE COLUMN 3 (RED ORANGE)	22	CATHODE COLUMN 3 (RED ORANGE)
9	ANODE ROW 5 (GREEN)	23	ANODE ROW 4 (GREEN)
10	ANODE ROW 5 (RED ORANGE)	24	ANODE ROW 4 (RED ORANGE)
11	CATHODE COLUMN 5 (GREEN)	25	CATHODE COLUMN 1 (GREEN)
12	CATHODE COLUMN 5 (RED ORANGE)	26	CATHODE COLUMN 1 (RED ORANGE)
13	ANODE ROW 7 (GREEN)	27	ANODE ROW 2 (GREEN)
14	ANODE ROWW 7 (RED ORANGE)	28	ANODE ROW 2 (RED ORANGE)

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ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	GREEN	RED ORANGE	UNIT			
Average Power Dissipation Per Dot	3	mW				
Peak Forward Current Per Dot	10	mA				
Average Forward Current Per Dot	1	mA				
Derating Linear From 25 ^o C Per Dot	0.	mA/ ⁰ C				
Reverse Voltage Per Dot	4	5				
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

GREEN

OREEN							
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION	
Ayona aa I yymin aya Intansity	Τ	1500	4800		μcd	I _p =80mA	
Average Luminous Intensity	Iv					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	
Formula Voltage and Det	V /_		2.1	2.6	V	I _F =20mA	
Forward Voltage any Dot	V_{F}		3	3.7	V	I _F =80mA	
Reverse Current any Dot	IR			100	μΑ	V _R =5V	
Luminous Intensity Metahing Datie	Iv-m			2:1		I _p =80mA	
Luminous Intensity Matching Ratio						1/16DUTY	

RED ORANGE

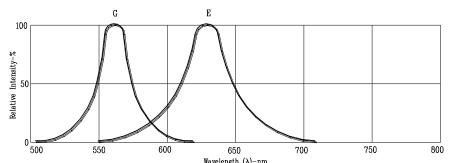
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION																	
Ayyana aa I yanin aya Intansity	Iv	1500	4800		μcd	I _p =80mA																	
Average Luminous Intensity						1/16DUTY																	
Peak Emission Wavelength	λр		630		nm	I _F =20mA																	
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA																	
Dominant Wavelength	λd		621		nm	I _F =20mA																	
	VF	VF	VF		2	2.6	V	I _F =20mA															
Forward Voltage any Dot				VF	VF	V F	V F	VF	VF	VF	VF	V F	VF	V F	V F		2.6						
Reverse Current any Dot	Ir			100	μΑ	V _R =5V																	
Lyminaus Intensity Matching Datio	Iv-m			2:1		I _p =80mA																	
Luminous Intensity Matching Ratio						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.

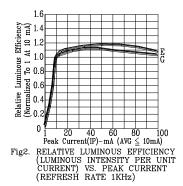
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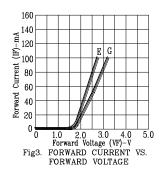
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

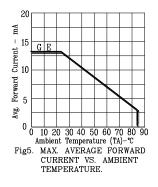
(25°C Ambient Temperature Unless Otherwise Noted)



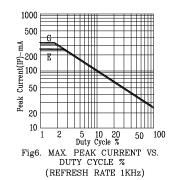
 $\label{eq:wavelength} \begin{tabular}{lll} Wavelength (λ)-nm. \\ Fig1. RELATIVE INTENSITY VS. WAVELENGTH \\ \end{tabular}$







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NOTE: G=GREEN & E=RED ORANGE

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