

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-30-97-261Effective Date: 12/12/2000

Revision: -

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- * 1.854 INCH (47.1mm) MATRIX HEIGHT.
- * LOW POWER REQUIREMENT.
- * SINGLE PLANE, WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY.
- * 4x4 ARRAY WITH X-Y SELECT.
- * COMPATIBLE WITH USASCLL AND EBCDIC CODES.
- * STACKABLE HORIZONTALLY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTP-2344E is a 1.854inch (47.1mm) matrix height 4x4 dot matrix display. This device utilizes red orange LED chips, which are made from GaAsP on a transparent GaP substrate, and has a gray face and white dot color.

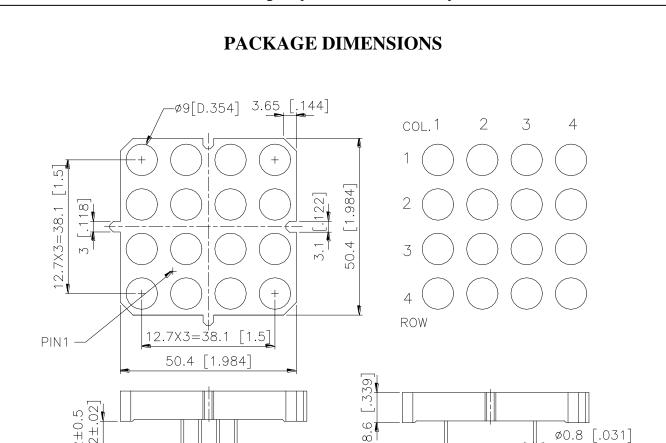
DEVICE

PART NO.	DESCRIPTION		
Red Orange	Cathode Column		
LTP-2344E	Anode Row		

PAGE: 1 of 5 PART NO.: LTP-2344E

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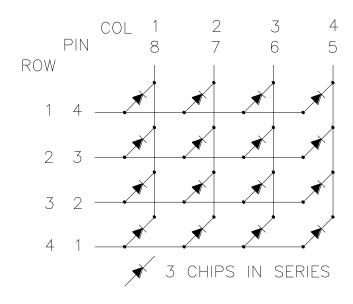


NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 mm (0.01") unless otherwise noted.

25.4 [1]

5.08X3= 15.24 [.6]

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

NO.	CONNECTION			
1	ANODE	ROW	4	
2	ANODE	ROW	3	
3	ANODE	ROW	2	
4	ANODE	ROW	1	
5	CATHODE	COLUM	IN	4
6	CATHODE	COLUM	IN	3
7	CATHODE	COLUM	IN	2
8	CATHODE	COLUM	IN	1

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ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Average Power Dissipation Per Dot	96	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	15	V		
Operating Temperature Range	-35° C to $+85^{\circ}$ C			
Storage Temperature Range	-35^{0} C to $+85^{0}$ C			
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C				

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

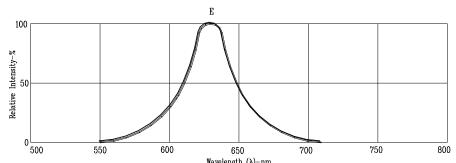
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	5000	11000		μcd	I _p =80mA
Average Lummous Intensity						1/16DUTY
Peak Emission Wavelength	λр		630		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λd		621		nm	I _F =20mA
Forward Voltage any Dot	VF		6.0	7.8	V	I _F =20mA
			7.8	10.2	V	I _F =80mA
Reverse Current any Dot	Ir			100	μΑ	V _R =15V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _p =80mA
						1/16DUTY

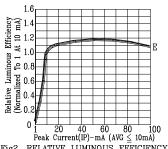
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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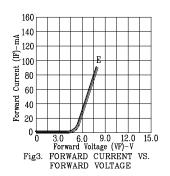
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

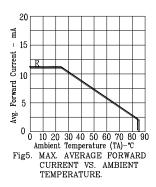
(25°C Ambient Temperature Unless Otherwise Noted)

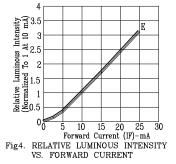


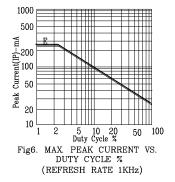


0 V 40 60 80 100
Peak Current(IP)-mA (AVG \(\) 10mA)
Fig2. RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT
(REFRESH RATE 1KHz)









NOTE: E=RED ORANGE

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