

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.

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LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

FEATURES

- *1.85 inch (47.0 mm) MATRIX HEIGHT.
- *LOW POWER REQUIREMENT.
- *SINGLE PLANE, WIDE VIEWING ANGLE.
- *SOLID STATE RELIABILITY.
- *8× 8 ARRAY WITH X-Y SELECT.
- *COMPATIBLE WITH USASCII AND EBCDIC CODES.
- *STACKABLE HORIZONTALLY.
- *CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTP-18088E is a 1.85 inch (47.0 mm) matrix height 8 x 8 dot matrix displays. This device utilizes Red Orange LED chips, which are made from GaAsP on GaP substrate, and has a black face and white dot color.

DEVICE

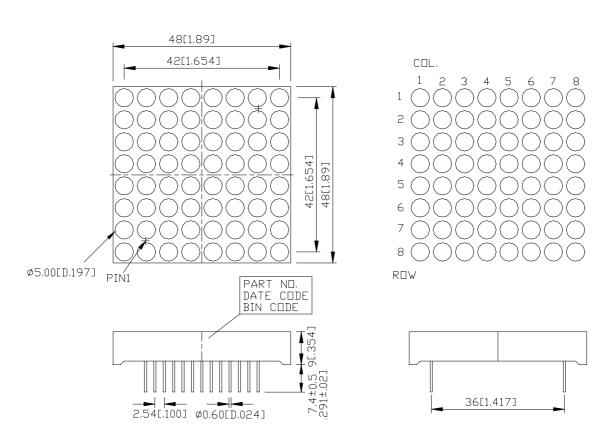
PART NO.	DESCRIPTION		
Red Orange	ANODE COLUMN		
LTP-18088E	CATHODE ROW		

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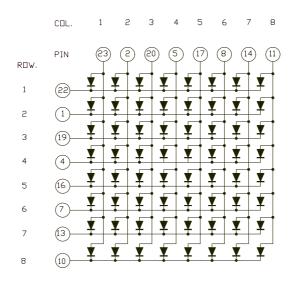
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PACKAGE DIMENSIONS



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	NO	CONNECTION			
1	CATHODE ROW 2	13	CATHODE ROW 7			
2	ANODE COLUMN 2	14	ANODE COLUMN 7			
3	NO PIN	15	NO PIN			
4	CATHODE ROW 4	16	CATHODE ROW 5			
5	ANODE COLUMN 4	17	ANODE COLUMN 5			
6	NO PIN	18	NO PIN			
7	CATHODE ROW 6	19	CATHODE ROW 3			
8	ANODE COLUMN 6	20	ANODE COLUMN 3			
9	NO PIN	21	NO PIN			
10	CATHODE ROW 8	22	CATHODE ROW 1			
11	ANODE COLUMN 8	23	ANODE COLUMN 1			
12	NO PIN	24	NO PIN			

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ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Average Power Dissipation Per Dot	36	mW			
Peak Forward Current Per Dot	125	mA			
Continuous Forward Current Per Dot	15	mA			
Derating Linear From 25 ^o C Per Dot	0.20	mA/ ⁰ C			
Reverse Voltage Per Dot	5	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 ^o C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

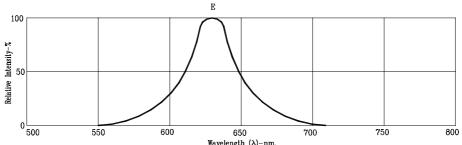
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	6300	12000		μcd	I _P =80mA, 1/16Duty
Peak Emission Wavelength	λр		660		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λd		638		nm	I _F =20mA
	VF		1.8	2.4	V	I _F =20mA
Forward Voltage Per Dot			2.0	2.7	V	I _F =80mA
Reverse Current Per Dot	Ir			100	μΑ	$V_R=5V$
Luminous Intensity Matching Ratio	Iv-m			2:1		I _F =10mA

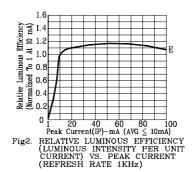
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commission Internationale DeL'Eclairage) eye-response curve.

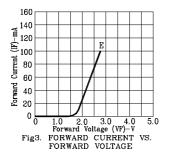
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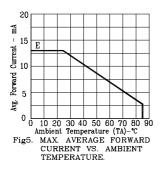
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

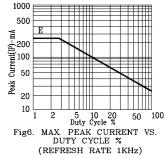








Forward Current (IF)—MA
Fig4. RELATIVE LUMINOUS INTENSITY
VS. FORWARD CURRENT



NOTE: E=RED ORANGE

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