



Spec No.: DS-30-95-009 Effective Date: 12/21/2000 Revision: -



BNS-OD-FC001/A4

LITE-ON Technology Corp. / Optoelectronics No.90,Chien 1 Road, Chung Ho, New Taipei City 23585, Taiwan, R.O.C. Tel: 886-2-2222-6181 Fax: 886-2-2221-1948 / 886-2-2221-0660 http://www.liteon.com/opto

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### **FEATURES**

- \* 2.3 inch (58.42 mm) MATRIX HEIGHT.
- \* LOW POWER REQUIREMENT.
- \* SINGLE PLANE, WIDE VIEWING ANGLE
- \* SOLID STATE RELIABILITY.
- \* 8x8 ARRAY WITH X-Y SELECT.
- \* COMPATIBLE WITH USASCLL AND EBCDIC CODES.
- \* STACKABLE HORIZONTALLY.
- \* CATEGORIZED FOR LUMINOUS INTENSITY.

# **DESCRIPTION**

The LTP-2B88AE is a 2.3 inch (58.42 mm) matrix height 8x8 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	Anode Column		
LTP-2B88AE	Cathode Row		

PART NO.: LTP-2B88AE

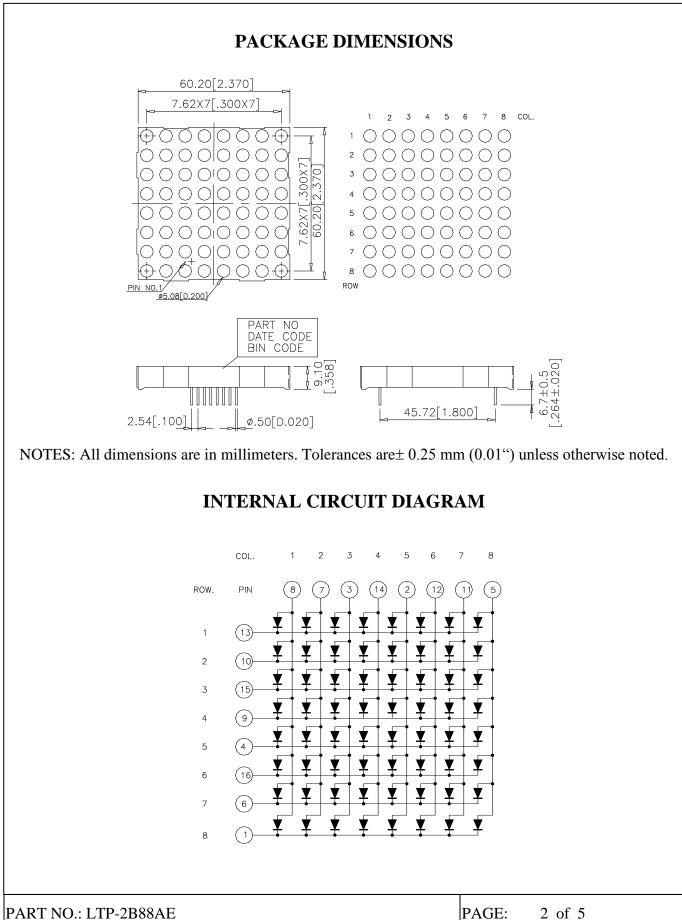
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# **PIN CONNECTION**

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

PART NO.: LTP-2B88AE

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# ABSOLUTE MAXIMUM RATING AT T<sub>A</sub>=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 <sup>0</sup> C Per Dot	0.17	mA/ <sup>0</sup> C		
Reverse Voltage Per Dot	5	V		
Operating Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C			
Storage Temperature Range	$-35^{\circ}$ C to $+85^{\circ}$ C			
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 <sup>o</sup> C				

# ELECTRICAL / OPTICAL CHARACTERISTICS AT T<sub>A</sub>=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1780	4800		μcd	Ip=80mA
						1/16DUTY
Peak Emission Wavelength	λp		630		nm	IF=20mA
Spectral Line Half-Width	Δλ		40		nm	IF=20mA
Dominant Wavelength	λd		621		nm	IF=20mA
Forward Voltage any Dot	VF		2	2.6	V	IF=20mA
			2.6	3.4	V	IF=80mA
Reverse Current any Dot	Ir			100	μΑ	Vr=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		Ip=80mA
						1/16DUTY

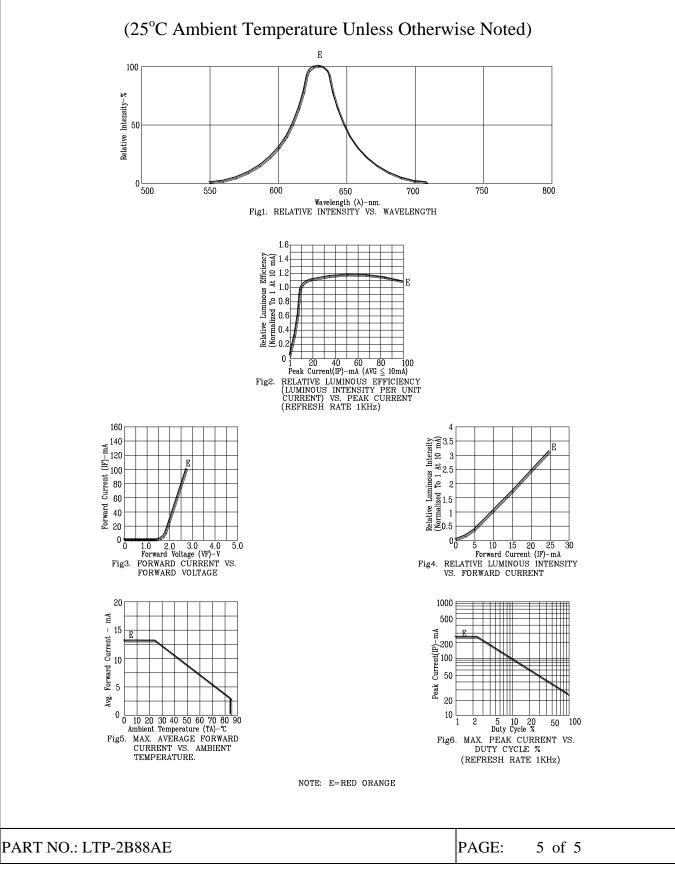
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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### **TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES**



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