imall

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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Spec No.: DS30-2000-425 Effective Date: 01/09/2001 Revision: -



BNS-OD-FC001/A4

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LITEON

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-2458AA-NB is a 2.3 inch (58.42 mm) matrix height 5x8 dot matrix display. This device is multicolor applicable display, which has black 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	Anode Column				
LTP-2458AA-NB	Cathode Row				

PART NO.: LTP-2458AA-NB

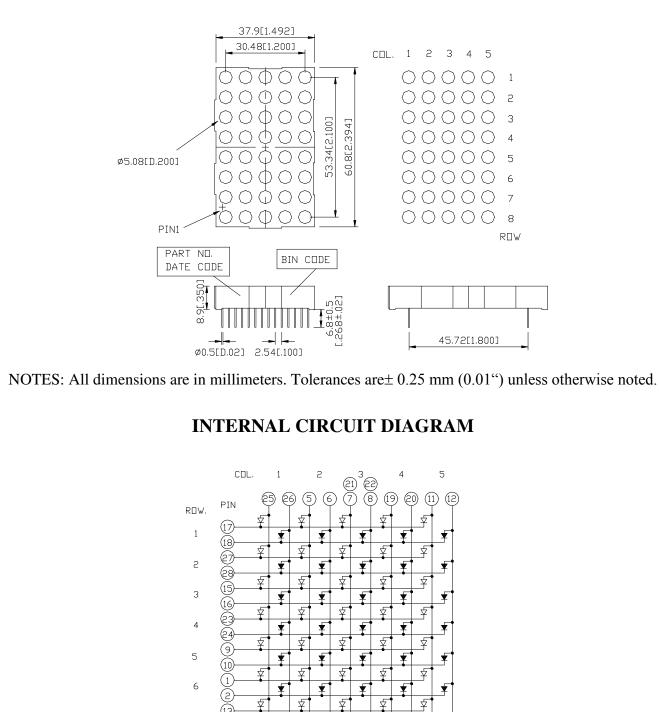
PAGE: 1 of 5



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PACKAGE DIMENSIONS



(13)

(14)

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The Sign " \ddagger " stands for Green color chips. The Sign " 犎 " stands for Red Drange color chips.

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PART NO.: LTP-2458AA-NB

PAGE: 2 of 5

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PIN CONNECTION

No.	CONNECTION	No.	CONNECTION		
1	CATHODE ROW 6 (GREEN)	15	CATHODE ROW 3 (GREEN)		
2	CATHODE ROW 6 (RED ORANGE)	16	CATHODE ROW 3 (RED ORANGE)		
3	CATHODE ROW 8 (GREEN)	17	CATHODE ROW 1 (GREEN)		
4	CATHODE ROW 8 (RED ORANGE)	18	CATHODE ROW 1 (RED ORANGE)		
5	ANODE COLUMN 2 (GREEN)	19	ANODE COLUMN 4 (GREEN)		
6	ANODE COLUMN 2 (RED ORANGE)	20	ANODE COLUMN 4 (RED ORANGE)		
7	ANODE COLUMN 3 (GREEN)	21	ANODE COLUMN 3 (GREEN)		
8	ANODE COLUMN 3 (RED ORANGE)	22	ANODE COLUMN 3 (RED ORANGE)		
9	CATHODE ROW 5 (GREEN)	23	CATHODE ROW 4 (GREEN)		
10	CATHODE ROW 5 (RED ORANGE)	24	CATHODE ROW 4 (RED ORANGE)		
11	ANODE COLUMN 5 (GREEN)	25	ANODE COLUMN 1 (GREEN)		
12	ANODE COLUMN 5 (RED ORANGE)	26	ANODE COLUMN 1 (RED ORANGE)		
13	CATHODE ROW 7 (GREEN)	27	CATHODE ROW 2 (GREEN)		
14	CATHODE ROWW 7 (RED ORANGE)	28	CATHODE 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	1	mA						
Average Forward Current Per Dot	1	mA						
Derating Linear From 25 ^o C Per Dot	0.	mA/ ⁰ C						
Reverse Voltage Per Dot	:	V						
Operating Temperature Range $-35^{\circ}C$ to $+85^{\circ}C$								
Storage Temperature Range -35° C to $+85^{\circ}$ C								
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ⁰ C								

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

GREEN						
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1500	4800		μcd	I _p =80mA 1/16DUTY
Peak Emission Wavelength	λp		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	IF=20mA
Dominant Wavelength	λd		569		nm	IF=20mA
Forward Voltage any Det	VF		2.1	2.6	V	IF=20mA
Forward Voltage any Dot			3	3.7	V	IF=80mA
Reverse Current any Dot	Ir			100	μA	Vr=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I _p =80mA 1/16DUTY

RED ORANGE

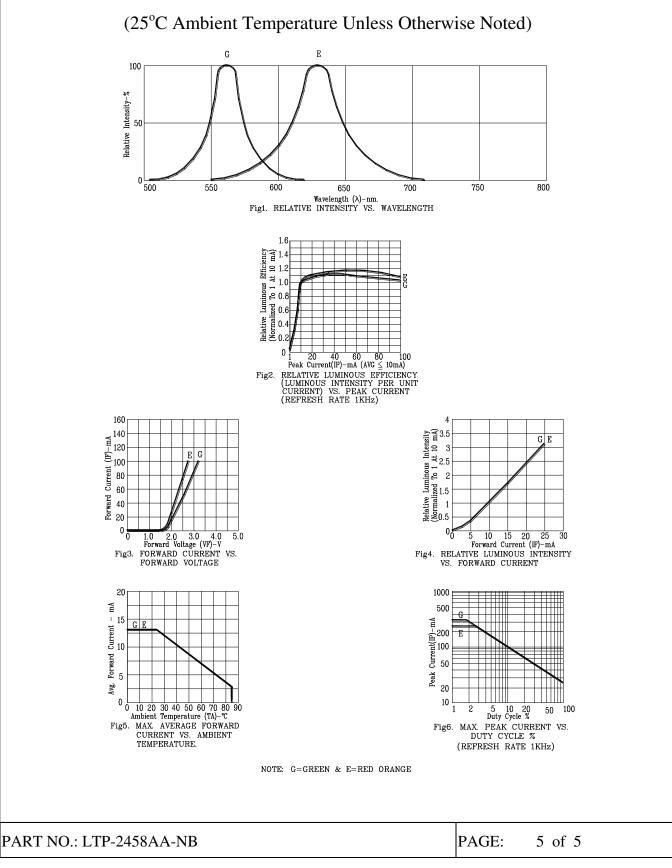
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION							
Avanaga Luminaya Intansity	I.,	1500	4800		μcd	Ip=80mA							
Average Luminous Intensity	Iv					1/16DUTY							
Peak Emission Wavelength	λp		630		nm	IF=20mA							
Spectral Line Half-Width	Δλ		40		nm	IF=20mA							
Dominant Wavelength	λd		621		nm	IF=20mA							
Forward Voltage any Dot	VF	VF		2	2.6	V	IF=20mA						
			V F	V F	VF	V F	V F	v F	V F	۷F	V F		2.6
Reverse Current any Dot	Ir			100	μA	Vr=5V							
I main and Interneity Matching Datio	Try ma			2:1		Ip=80mA							
Luminous Intensity Matching Ratio	Iv-m					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



BNS-OD-C131/A4