



Spec No.: DS-30-99-485 Effective Date: 06/29/2000 Revision: -



BNS-OD-FC001/A4

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FEATURES

* 2.0 inch (50.8 mm) MATRIX HEIGHT.
* LOW POWER REQUIREMENT.
* SINGLE PLANE, WIDE VIEWING ANGLE.
* SOLID STATE RELIABILITY.
* 5×7 ARRAY WITH X-Y SELECT.
* COMPATIBLE WITH USASCII AND EBCDIC CODES.
* STACKABLE HORIZONTALLY.
* CATEGORIZED FOR LUMINOUS INTENSITY.

DESCRIPTION

The LTP-2057AG-NB is a 2.0 inch (50.8 mm) matrix height 5×7 dot matrix display. This device utilizes Green LED chips, which are made from GaP on GaP substrate, and has a black face and white dot color.

DEVICE

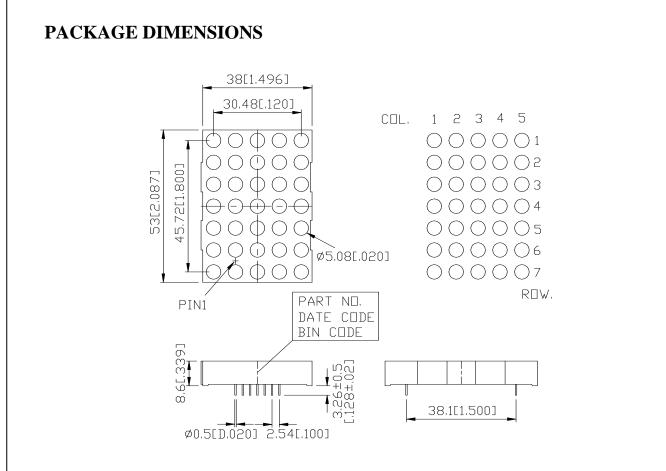
PART NO.	DESCRIPTION			
Green	ANODE COLUMN			
LTP-2057AG-NB	CATHODE ROW			

]	PART	NO.:	LTP-2	2057A	G-NB
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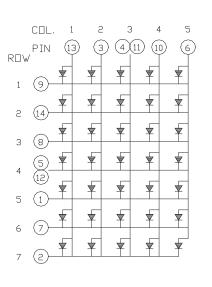
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NOTES: All dimensions are in millimeters. Tolerance is ± 0.25 mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTP-2057AG-NB



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PIN CONNECTION

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

NOTES : 1. Pin 4 & 11 are internally connected. 2. Pin 5 & 12 are internally connected.

PART NO.: LTP-2057AG-NB

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ABSOLUTE MAXIMUM RATING AT Ta=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°C Per Dot	0.17	mA/°C		
Reverse Voltage Per Dot	5	V		
Operating Temperature Range	-35°C to +85°C			
Storage Temperature Range	-35°C to +85°C			
Solder Temperature: max 260° C for max 3sec at 1.6mm[1/16inch] below seating plane.				

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
	Iv	1700	4800		μcd	I _p =80mA
Average Luminous Intensity						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 Dot	VF		2.1	2.6	X 7	IF=20mA
			3.0	3.7	V	IF=80mA
Reverse Current any Dot	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

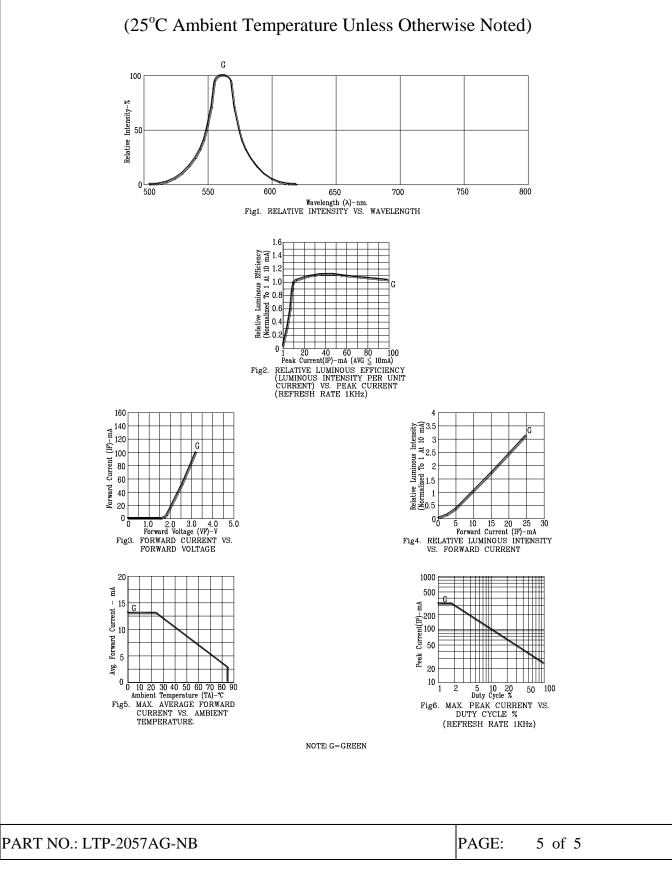
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES



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