# 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.

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-30-99-688 Effective Date: 01/09/2001 Revision: -



BNS-OD-FC001/A4

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## Property of Lite-On Only

### **FEATURES**

- \* 2 inch (50.8 mm) MATRIX HEIGHT.
- \* LOW POWER REQUIREMENT.
- \* SINGLE PLANE, WIDE VIEWING ANGLE
- \* SOLID STATE RELIABILITY.
- \* 5x7 ARRAY WITH X-Y SELECT.
- \* COMPATIBLE WITH USASCLL AND EBCDIC CODES.
- \* STACKABLE HORIZONTALLY.
- \* CATEGORIZED FOR LUMINOUS INTENSITY.

## **DESCRIPTION**

The LTP-2157AG is a 2 inch (50.8 mm) matrix height 5x7 dot matrix display. This device utilizes green LED chips, which are made from GaP on a transparent GaP substrate, and has a gray face and white dot color.

# DEVICE

PART NO.	DESCRIPTION		
Green	Cathode Column		
LTP-2157AG	Anode Row		

PART NO.: LTP-2157AG

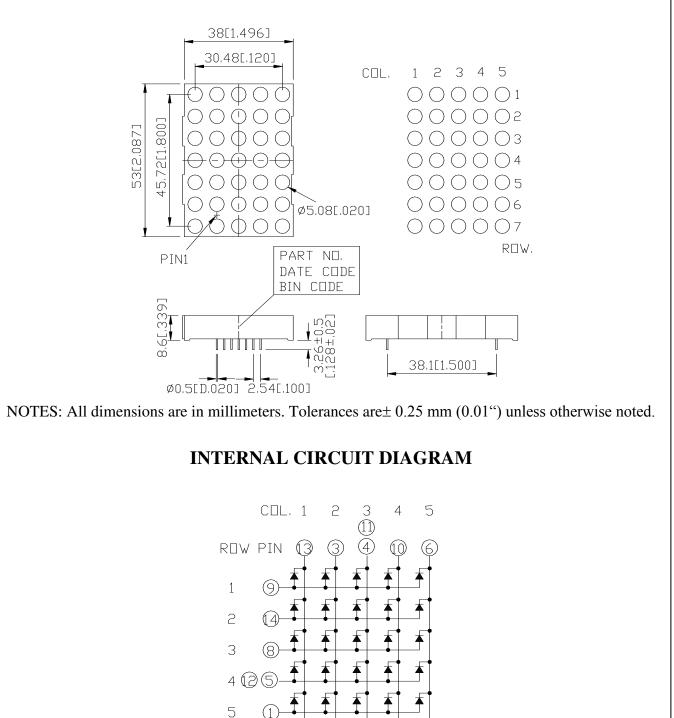
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#### **PACKAGE DIMENSIONS**



PART NO.: LTP-2157AG

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7



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## **PIN CONNECTION**

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

PART NO.: LTP-2157AG

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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	e 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

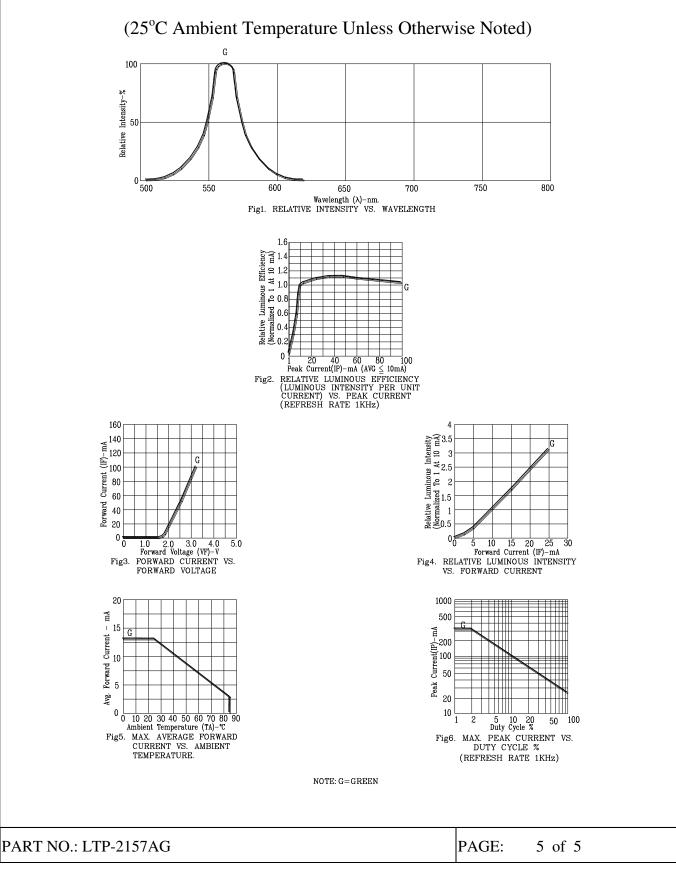
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	1780	4800		μcd	Ip=80mA
						1/16DUTY
Peak Emission Wavelength	λp		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	IF=20mA
Dominant Wavelength	λd		569		nm	IF=20mA
Forward Voltage any Dot	VF		2.1	2.6	- v	IF=20mA
			3	3.7		IF=80mA
Reverse Current any Dot	Ir			100	μΑ	V <sub>R</sub> =5V
Luminous Intensity Matching Ratio	Iv-m			2:1		I <sub>p</sub> =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.

# LITEON

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



BNS-OD-C131/A4