



Spec No.: DS30-2001-456Effective Date: 11/11/2006

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

Property of Lite-On Only

FEATURES

- *0.678 inch (17.22 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.
- *LEAD-FREE PACKAGE(ACCORDING TO ROHS)

DESCRIPTION

The LTP-7357AG is a 0.678 inch (17.22 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 dots.

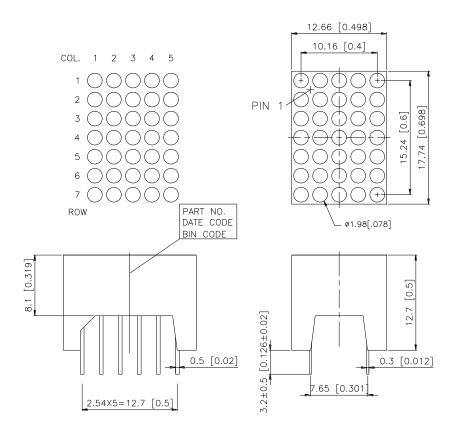
DEVICE

PART NO.	DESCRIPTION			
GREEN	CATHODE COLUMN			
LTP-7357AG	ANODE ROW			

PART NO.: LTP-7357AG PAGE: 1 of 5

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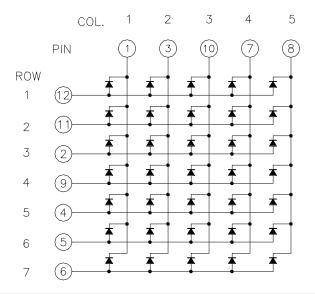
PACKAGE DIMENSIONS



NOTES: 1. All dimensions are in millimeters. Tolerances are $\pm\,0.25$ mm unless otherwise note.

2. Pin tip's shift tolerance is \pm 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



PART NO.: LTP-7357AG PAGE: 2 of 5

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PIN CONNECTION

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

PART NO.: LTP-7357AG PAGE: 3 of 5

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ABSOLUTE MAXIMUM RATING AT Ta=25°C

PARAMETER	MAXIMUM RATING	UNIT		
Average Power Dissipation Per Dot	75	mW		
Peak Forward Current Per Dot	100	mA		
Average Forward Current Per Dot	25	mA		
Derating Linear From 25°C Per Dot	0.33	mA/°C		
Reverse Voltage Per Segment	5	V		
Operating Temperature Range	-35°C to +105°C			
Storage Temperature Range	-35°C to +105°C			

Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C or

of temperature unit (during assembly) not over max temperature rating above.

ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	630	2000		μcd	I _P =80mA, 1/16Duty
Peak Emission Wavelength	λр		565		nm	I _F =20mA
Spectral Line Half-Width	Δλ		30		nm	I _F =20mA
Dominant Wavelength	λd		569		nm	I _F =20mA
	VF		2.1	2.6	V	I _F =20mA
Forward Voltage Per dot			3.0	3.7	V	I _F =80mA
Reverse Current Per dot	Ir			100	μΑ	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	Iv-m			2:1		IP=80mA, 1/16Duty

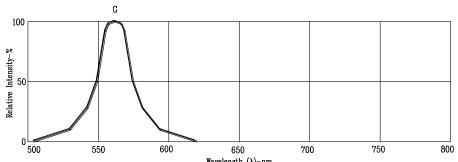
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

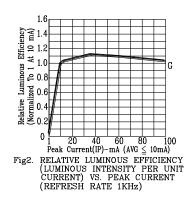
PART NO.: LTP-7357AG PAGE: 4 of 5

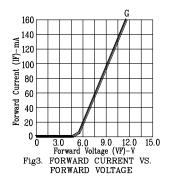
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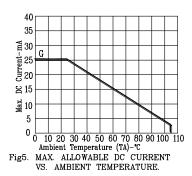
TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

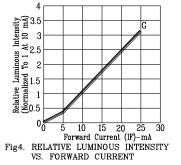
(25°C Ambient Temperature Unless Otherwise Noted)

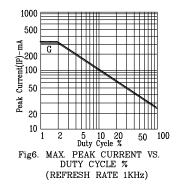












NOTE: G=GREEN (REFRESH RATE 1KHz)

PART NO.: LTP-7357AG PAGE: 5 of 5