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.

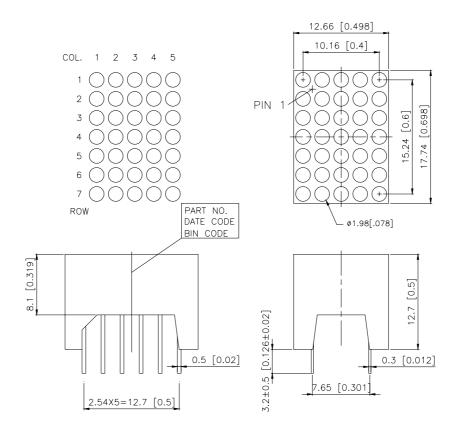
DEVICE

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

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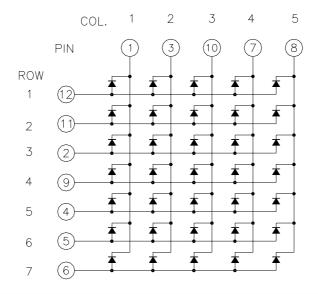
PACKAGE DIMENSIONS



NOTES: 1. All dimensions are in millimeters. Tolerances are $\pm~0.25~\text{mm}$ unless otherwise note.

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

INTERNAL CIRCUIT DIAGRAM



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Property of Lite-On Only

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				

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Property of Lite-On Only

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 $+105^{\circ}$ 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
Forward Voltage Per dot	* 7		2.1	2.6	V	I _F =20mA
	V_{F}		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		I _P =80mA , 1/16Duty

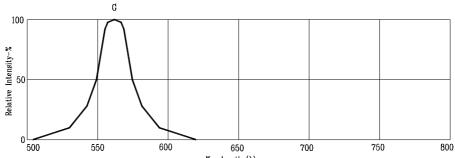
Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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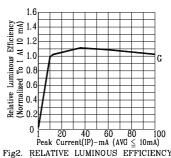
Property of Lite-On Only

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

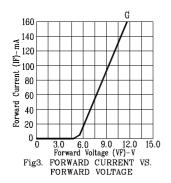
(25°C Ambient Temperature Unless Otherwise Noted)

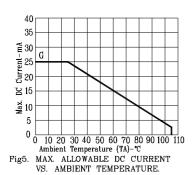


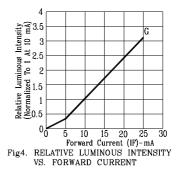
 $\label{eq:wavelength} \begin{tabular}{lll} Wavelength & (\lambda)-nm. \\ Fig1. & RELATIVE & INTENSITY & VS. & WAVELENGTH \\ \end{tabular}$

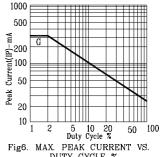


RELATIVE LUMINOUS EFFICIENCY (LUMINOUS INTENSITY PER UNIT CURRENT) VS. PEAK CURRENT (REFRESH RATE 1KHz)









(REFRESH RATE 1KHz)

NOTE: G=GREEN (REFRESH RATE 1KHz)

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