

FEATURES

- * 3.0 -INCH (76.2 -mm) MATRIX HEIGHT.
- * LOW POWER REQUIREMENT.
- * EXCELLENT CHARACTERS APPEARANCE.
- * HIGH BRIGHTNESS & HIGH CONTRAST.
- * WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- * CATEGORIZED FOR LUMINOUS INTENSITY.
- * STACKABLE VERTICALLY AND HORIZONTALLY.

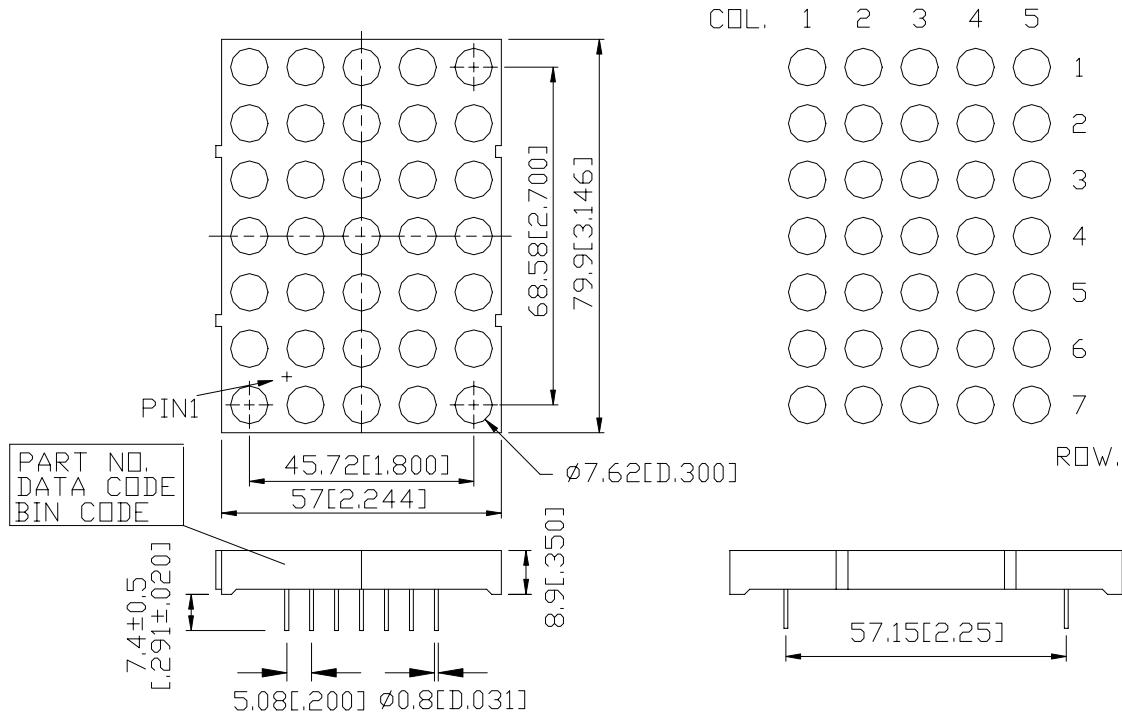
DESCRIPTION

The is a 3.0 -inch (76.2 -mm) matrix height 5×7 dot-matrix display. This device utilizes ultra AlGaAs red LED chips, which are made from AlGaAs on a non-transparent GaAs substrate, and has a gray face and white dots.

DEVICE

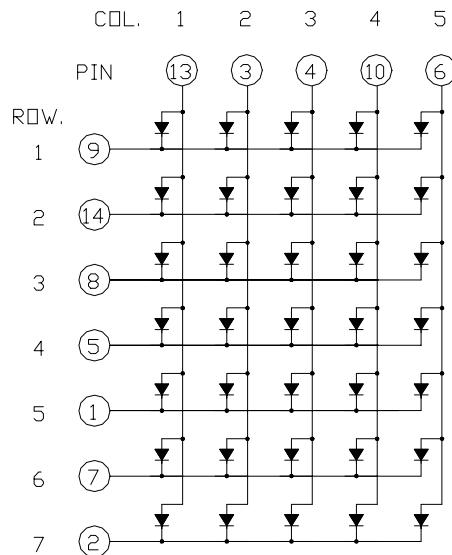
PART NO.	DESCRIPTION
AlGaAs RED	ANODE COLUMN
LTP-3057AC	CATHODE ROW

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are $\pm 0.25\text{-mm}$ (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT
Average Power Dissipation Per Dot	64	mW
Peak Forward Current Per Dot	110	mA
Continuous Forward Current Per Dot	14	mA
Derating Linear From 25°C Per Dot	0.19	mA/°C
Reverse Voltage Per Dot	10	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260°C		

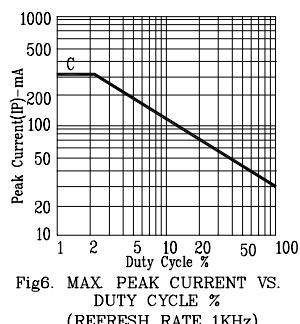
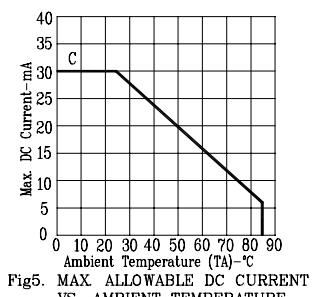
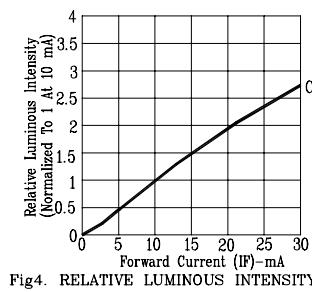
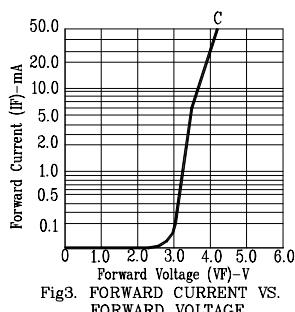
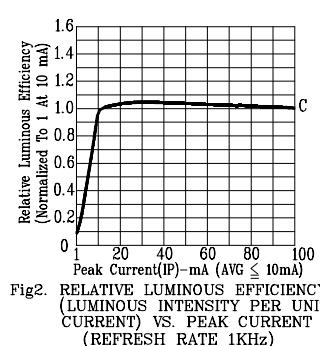
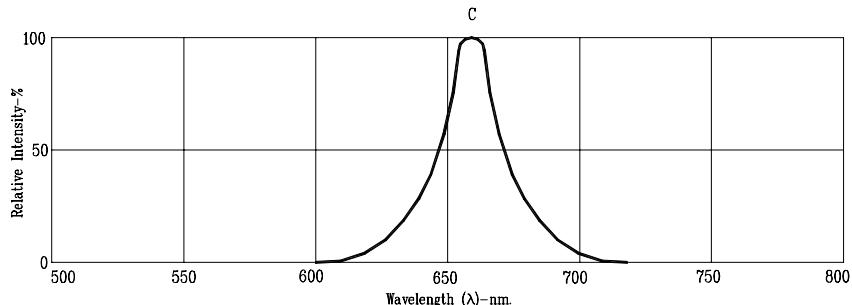
ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	11500	20000		μcd	I _F =80mA, 1/16 Duty
Peak Emission Wavelength	λ _p		660		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λ _d		638		nm	I _F =20mA
Forward Voltage Per Dot	V _F		3.6	4.8	V	I _F =20mA
			4	5.4	V	I _F =80mA
Reverse Current Per Dot	I _R			100	μA	V _R =10V
Luminous Intensity Matching Ratio	I _{v-m}			2:1		I _F =10mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (commision internationale DE L'clairage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE: C=AlGaAs RED