

LED DISPLAY**LTP-2158AHR**
DATA SHEET

<u>Rev</u>	<u>Description</u>	<u>By</u>
-	ORIGINAL SPEC	Ruby Lee
A	PAPER CORRECTION	Tifa Chang
B	REVISE PACKAGE DIMENSIONS ON PAGE 2/5	Phanomkorn J.

SPEC. NO.: DS-30-97-356D A T E : 17/OCT/'08REV. NO. : BPAGE NO. : 0 OF 5

FEATURES

- * 2.3 inch (58.42 mm) MATRIX HEIGHT
- * LOW POWER REQUIREMENT
- * SINGLE PLANE, WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY
- * 5x8 ARRAY WITH X-Y SELECT
- * COMPATIBLE WITH USASCII AND EBCDIC CODES
- * STACKABLE HORIZONTALLY
- * CATEGORIZED FOR LUMINOUS INTENSITY
- * **LEAD-FREE PACKAGE(ACCORDING TO ROHS)**

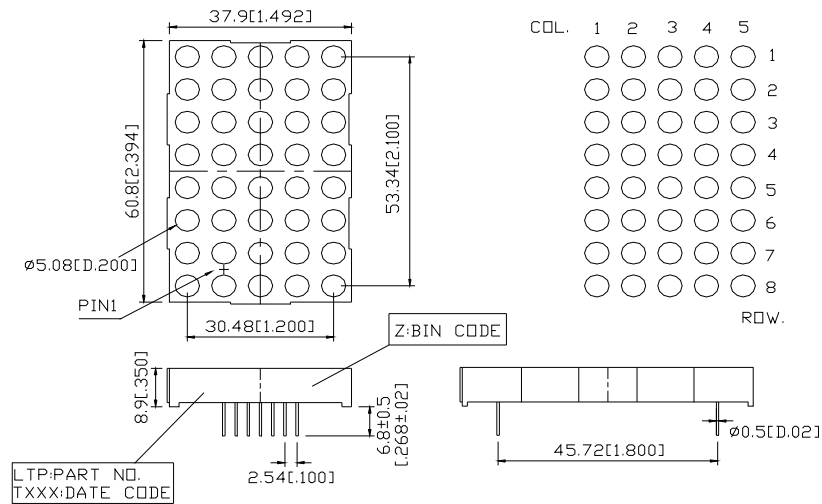
DESCRIPTION

The LTP-2158AHR is a 2.3 inch (58.42 mm) matrix height 5x8 dot matrix display. This device uses Red Orange LED chips(GaAsP epi on GaP substrate). It has a Red face and Red dot color.

DEVICE

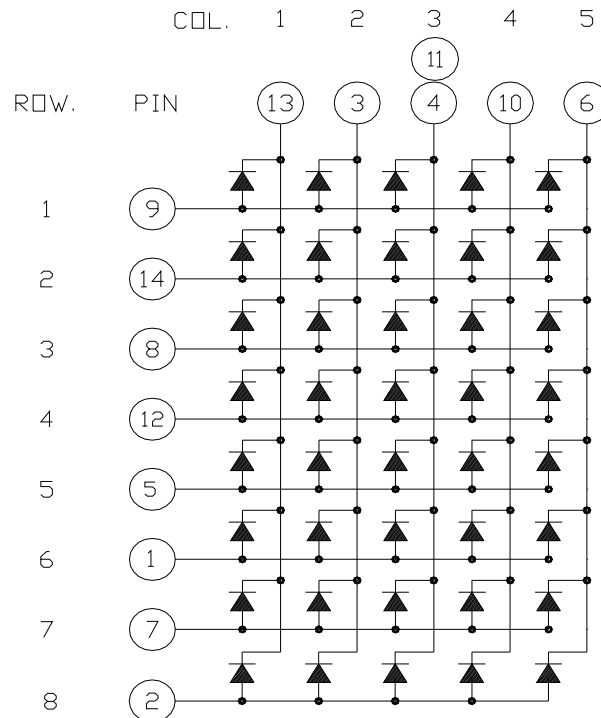
PART NO.	DESCRIPTION
Hi-Eff. Red	CATHODE COLUMN
LTP-2158AHR	ANODE ROW

PACKAGE DIMENSIONS



- NOTES: 1. All dimensions are in millimeters. Tolerances are ± 0.25 mm unless otherwise note.
 2. Pin tip's shift tolerance is ± 0.4 mm.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No.	CONNECTION
1	ANODE ROW 6
2	CATHODE ROW 8
3	ANODE COLUMN 2
4	CATHODE COLUMN 3
5	ANODE ROW 5
6	CATHODE COLUMN 5
7	ANODE ROW 7
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

ABSOLUTE MAXIMUM RATING

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
Forward Current Derating from 25°C	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	
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.		

* see figure 5 to establish plused condition

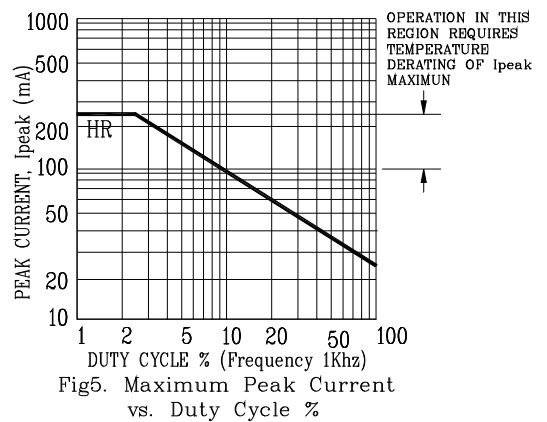
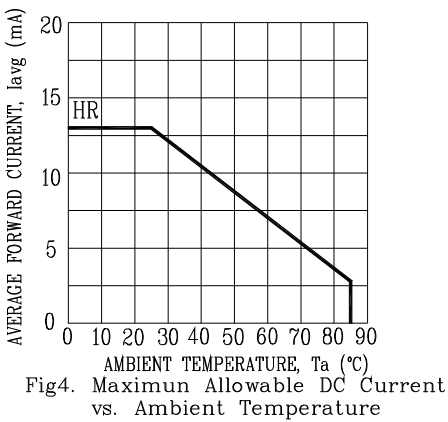
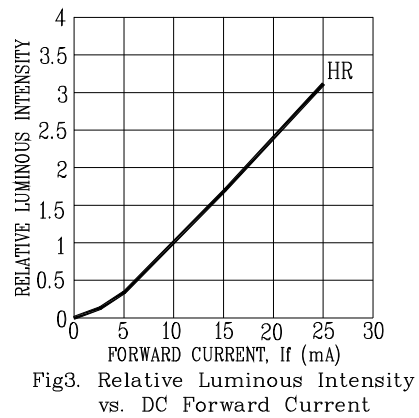
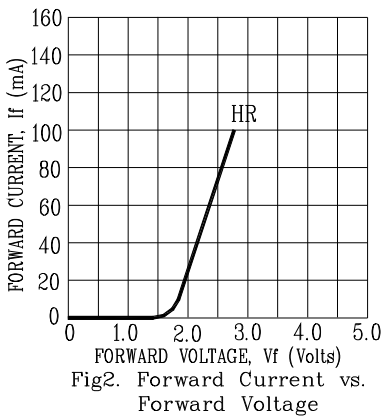
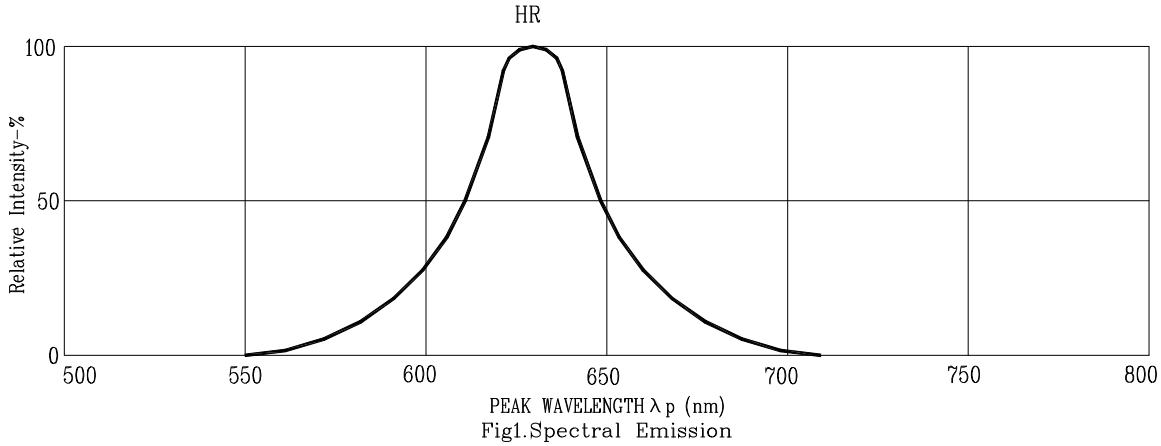
ELECTRICAL / OPTICAL CHARACTERISTICS AT Ta=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	1780	4800		μcd	I _p =80mA 1/16Duty
Peak Emission Wavelength	λ _p		630		nm	I _F =20mA
Spectral Line Half-Width	Δλ		40		nm	I _F =20mA
Dominant Wavelength	λ _d		621		nm	I _F =20mA
Forward Voltage any Dot	V _F		2.0	2.6	V	I _F =20mA
			2.6	3.4		I _F =80mA
Reverse Current any Dot	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio (Similar Light Area)	I _{v-m}			2:1		I _F =80mA 1/16 Duty

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

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)



NOTE: HR= HI-EFF RED

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