



RAYCONN ELECTRONICS CO.,LTD

SPECIFICATION FORM

FEATURES

- ◇ Φ 3.70MM DOT SIZE
- ◇ 38.0MM×38.0MM OUTLINE
- ◇ 8×8 FORMAT
- ◇ SINGLE COLOR DOT MATRIX
- ◇ LOW POWER REQUIREMENT
- ◇ EASY ASSEMBLY
- ◇ SOLID STATE RELIABILITY

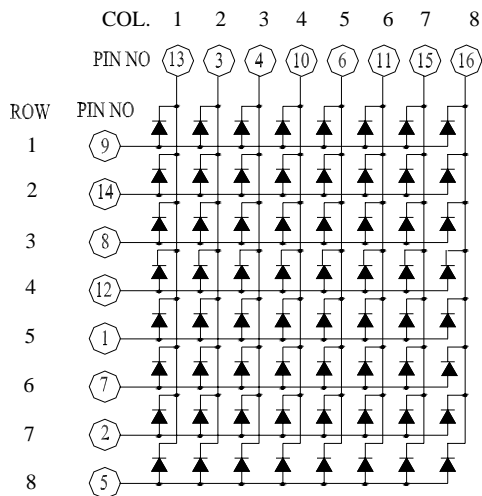
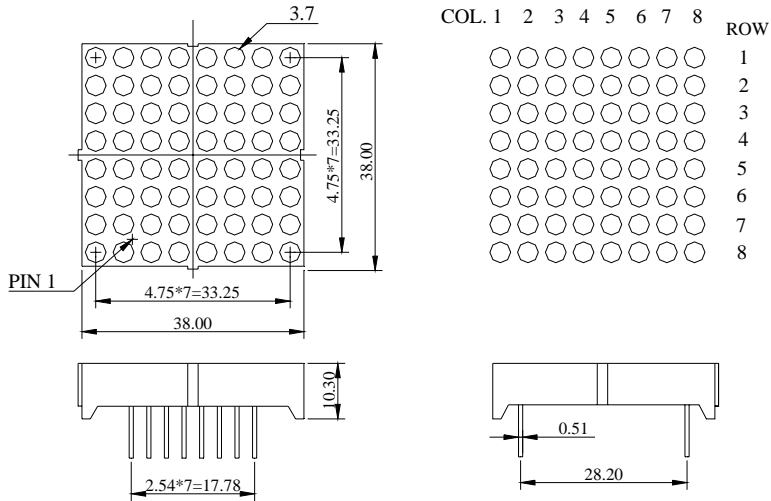
DESCRIPTION

The REC-M1588ASR is a ϕ 3.7 dot size, 38.0mm×38.0mm outline, 8×8 format, single color, row anode, LED dot matrix display. This display utilizes super-red LED chips fabricated from GaAlAs epiwafer on GaAs substrate grown by liquid phase epitaxy. The devices have black face and white dots.

DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M1588ASR	Super-Red	Row Anode, Black face, White dot

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM

PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Anode Row 5	9	Anode Row 1
2	Anode Row 7	10	Cathode column 4
3	Cathode column 2	11	Cathode column 6
4	Cathode column 3	12	Anode Row 4
5	Anode Row 8	13	Cathode column 1

6	Cathode column 5	14	Anode Row 2
7	Anode Row 6	15	Cathode column 7
8	Anode Row 3	16	Cathode column 8

ABSOLUTE MAXIMUM RATING AT T_A=25° C

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per dot	P _{AD}	60	mW
Peak Forward Current per dot. (1/10 Duty Cycle. 0.1ms Pules Width)	I _{PF}	80	mA
Continuous Forward Current per dot	I _{AF}	15	mA
Reverse Voltage per dot	V _R	5	V
Operating Temperature Range, T _{opr}	- 25° C to + 85° C		
Storage Temperature Range, T _{stg}	- 30° C to + 90° C		
Solder Temperature : 1 / 16 inch below seating plane for 3 seconds at 260° C			

ELECTRO - OPTICAL CHARACTERISTICS AT T_A=25° C

PARAMETER	UNIT	MIN	TYPE	MAX
Luminous Intensity per chip, I _V (I _F =20mA)	mcd	6	9	13
Peak Emission Wavelength, λ _p (I _F =20mA)	nm		635	
Special Line Half-Width, Δλ (I _F =20mA)	nm		20	
Forward Voltage per chip, V _F (I _F =20mA)	V	1.6	1.8	2.1
Reverse Current per chip, I _R , (V _R =5V)	μA			100
Luminous Intensity Matching Ratio, I _{V-m} (I _F =20mA)				2 : 1