

SPECIFICATION FORM**FEATURES**

- ◇ Φ 1.9MM DOT SIZE
- ◇ 20.20MM×20.20MM OUTLINE
- ◇ 8×8 FORMAT
- ◇ SINGLE COLOR DOT MATRIX
- ◇ LOW POWER REQUIREMENT
- ◇ EASY ASSEMBLY
- ◇ SOLID STATE RELIABILITY

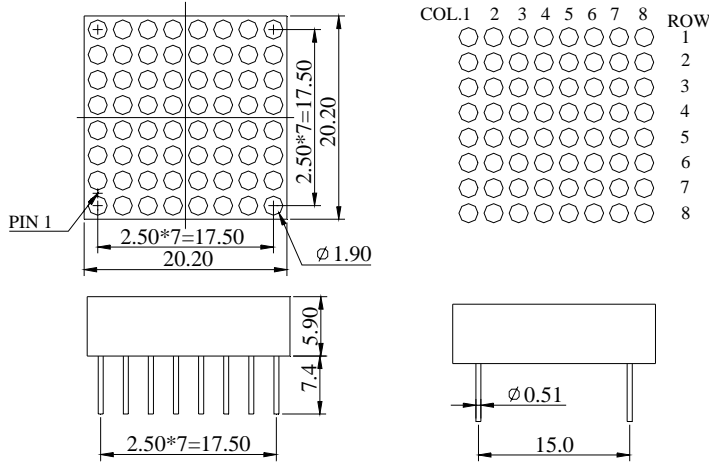
DESCRIPTION

The REC-M788CSR is a ϕ 1.90 dot size, 20.20mm×20.20mm outline, 8×8 format, single color, row cathode LED dot matrix display. This display utilizes red LED chips fabricated from GaAlAs epiwafer on GaAs substrate grown by liquid phase epitaxy. The devices have black face and white dots.

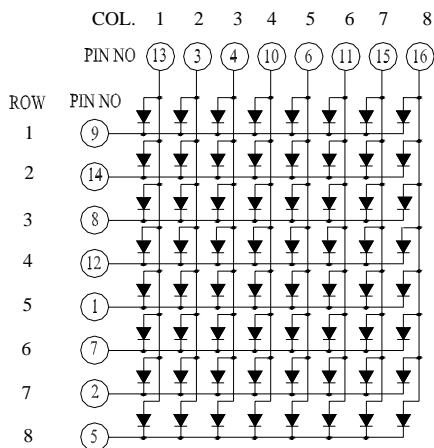
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M788CSR	Super-Red	Row Cathode, Black face, White dot

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Cathode Row 5	9	Cathode Row 1
2	Cathode Row 7	10	Anode column 4
3	Anode column 2	11	Anode column 6
4	Anode column 3	12	Cathode Row 4
5	Cathode Row 8	13	Anode column 1
6	Anode column 5	14	Cathode Row 2
7	Cathode Row 6	15	Anode column 7
8	Cathode Row 3	16	Anode 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	I _{PF}	100	mA
Continuous Forward Current per dot	I _{AF}	20	mA
Reverse Voltage per dot	V _R	5	V
Operating Temperature Range, T _{opr}		- 25°C to + 60°C	
Storage Temperature Range, T _{stg}		- 30°C to + 85°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		13	
Peak Emission Wavelength, λ _p (I _F =20mA)	nm		630	
Special Line Half-Width, Δλ (I _F =20mA)	nm		30	
Forward Voltage per chip, V _F (I _F =20mA)	V	1.6	1.8	1.9
Reverse Current per chip, I _R , (V _R =5V)	μA			100
Luminous Intensity Matching Ratio, I _{V-m} (I _F =20mA)				1.5:1