

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

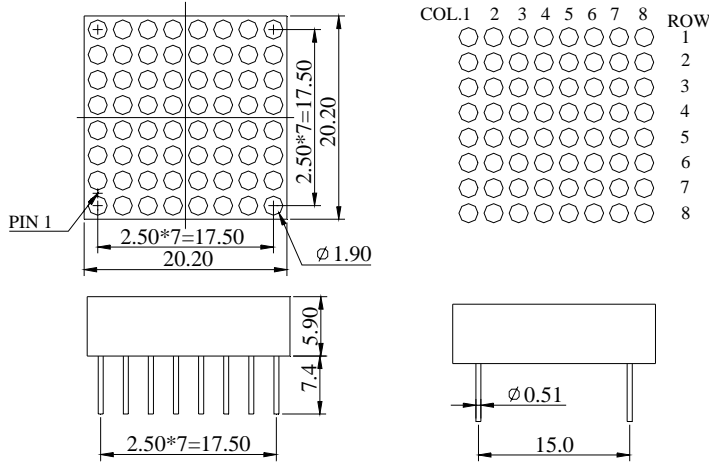
DESCRIPTION

The REC-M788CG 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 yellow-green LED chips fabricated from GaP epiwafer on GaP substrate grown by liquid phase epitaxy. The devices have black face and white dots.

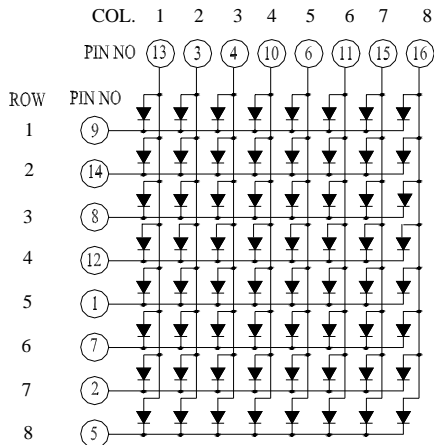
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M788CG	Yellow-Green	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}	75	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		571	
Special Line Half-Width, Δλ (I _F =20mA)	nm		30	
Forward Voltage per chip, V _F (I _F =20mA)	V	2.1	2.15	2.5
Reverse Current per chip, I _R , (V _R =5V)	μA			100
Luminous Intensity Matching Ratio, I _{V-m} (I _F =20mA)				1.5:1