

SPECIFICATION FORM**FEATURES**

- ◇ Φ 5.0MM DOT SIZE
- ◇ 38.10MM×60.96MM OUTLINE
- ◇ 5×8 FORMAT
- ◇ SINGLE COLOR DOT MATRIX
- ◇ LOW POWER REQUIREMENT
- ◇ EASY ASSEMBLY
- ◇ SOLID STATE RELIABILITY

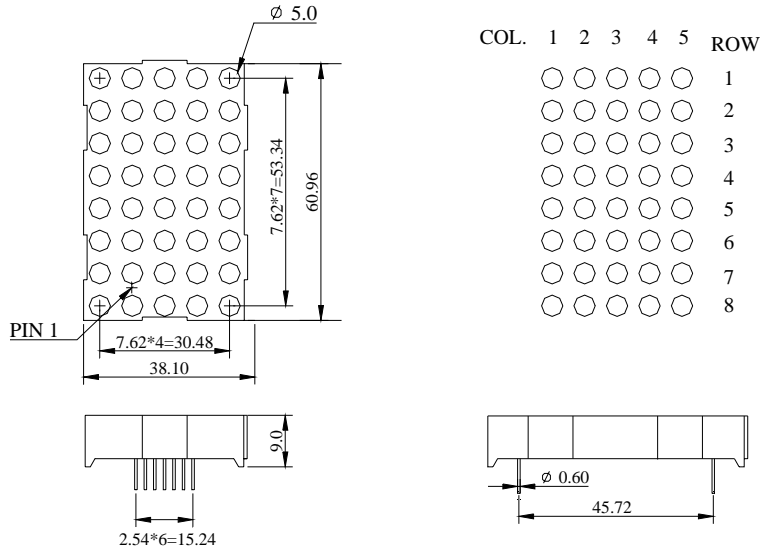
DESCRIPTION

The REC-M2058CG 5.0 dot size, 38.10mm×60.96mm outline, 5×8 format, single color, row anode, LED dot matrix display. This display utilizes green LED chips fabricated from GaP epiwafer on GaP substrate grown by liquid phase epitaxy. The devices have black face and white dots.

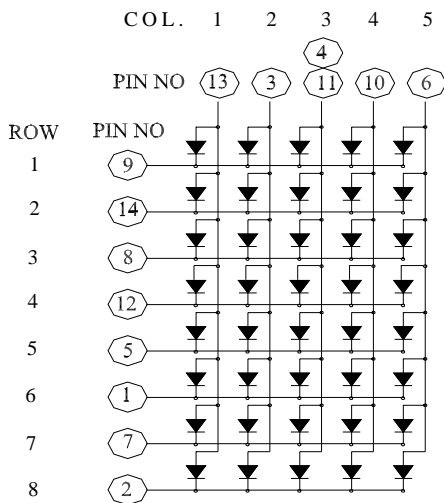
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M2058CG	Yellow-Green	Row Cathode, Black face, White dots

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

PIN NO.	CONNECTION	PIN NO.	CONNECTION
1	Cathode Row 6	8	Cathode Row 3
2	Cathode Row 8	9	Cathode Row 1
3	Anode column 2	10	Anode column 4
4	Anode column 3	11	Anode column 3
5	Cathode Row 5	12	Cathode Row 4
6	Anode Row 1	13	Anode column 1
7	Cathode Row 7	14	Cathode Row 2

ABSOLUTE MAXIMUM RATING AT $T_A=25^\circ\text{C}$

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 $T_A=25^\circ\text{C}$

PARAMETER	UNIT	MIN	TYPE	MAX
Luminous Intensity per dot, I_V ($I_F=20\text{mA}$)	mcd	9.0	11	13
Peak Emission Wavelength, λ_D ($I_F=20\text{mA}$)	nm		570	
Special Line Half-Width, $\Delta\lambda$ ($I_F=20\text{mA}$)	nm		20	
Forward Voltage per dot, V_F ($I_F=20\text{mA}$)	V	2.1	2.3	2.5
Reverse Current per dot, I_R , ($V_R=5\text{V}$)	μA			100
Luminous Intensity Matching Ratio, I_{V-m} ($I_F=20\text{mA}$)				2 : 1