

SPECIFICATION FORM**FEATURES**

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

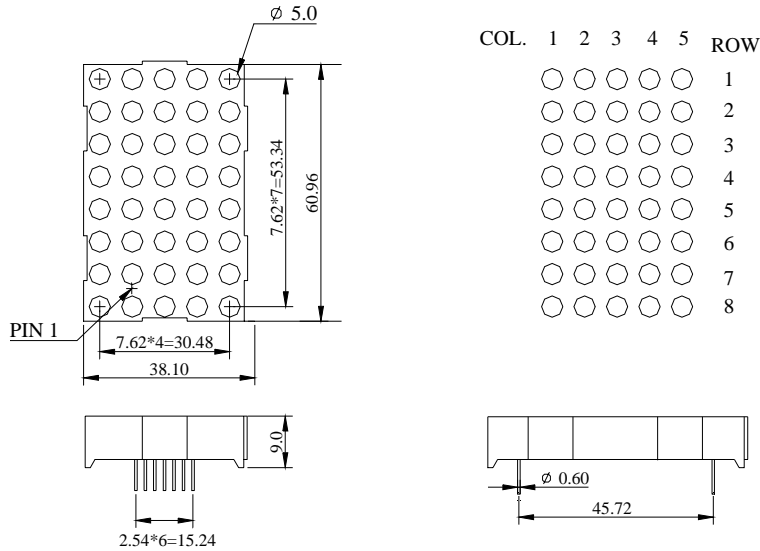
DESCRIPTION

The REC-M2058CSRG is a ϕ 5.0 dot size, 38.10mm×60.96mm outline, 5×8 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 and yellow green LED chips fabricated from GaP epiwafer on GaP substrate grown by liquid phase epitaxy. The devices have black face and white dots.

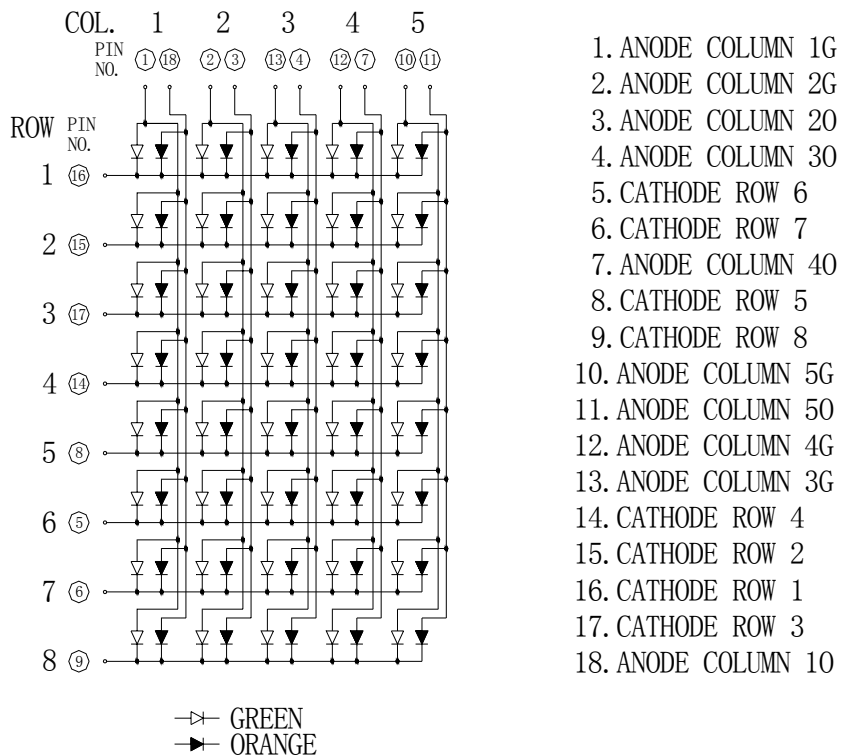
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M2058CSRG	Super-Red & Yellow-green	Row Cathode, Black face, White dots

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



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}	80	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	RED			GREEN		
	MIN	TYP	MAX	MIN	TYP	MAX
Luminous Intensity per chip, I _V (mcd, I _F =20mA)	5	7.5	10	10	15	20
Peak Emission Wavelength, λ _P (nm, I _F =20mA)		640			568	
Domonant Wavelength, λ _d (nm, I _F =20mA)		635			573	
Special Line Half-Width, Δλ (nm, I _F =20mA)		20			30	
Forward Voltage per dot, V _F (V, I _F =20mA)	1.60	1.80	2.20	1.80	2.15	2.60
Reverse Current per dot, I _R (μA, V _R =5V)			50			50
Luminous Intensity Matching Ratio, I _{V-m} (I _F =20mA)			2 : 1			2 : 1