

SPECIFICATION FORM**FEATURES**

- ◇ Φ 10.0MM DOT SIZE
- ◇ 76.20MM×121.92MM OUTLINE
- ◇ 5×8 FORMAT
- ◇ SINGLE COLOR DOT MATRIX
- ◇ LOW POWER REQUIREMENT
- ◇ HIGH CONTRAST
- ◇ HIGH BRIGHTNESS
- ◇ SOLID STATE RELIABILITY

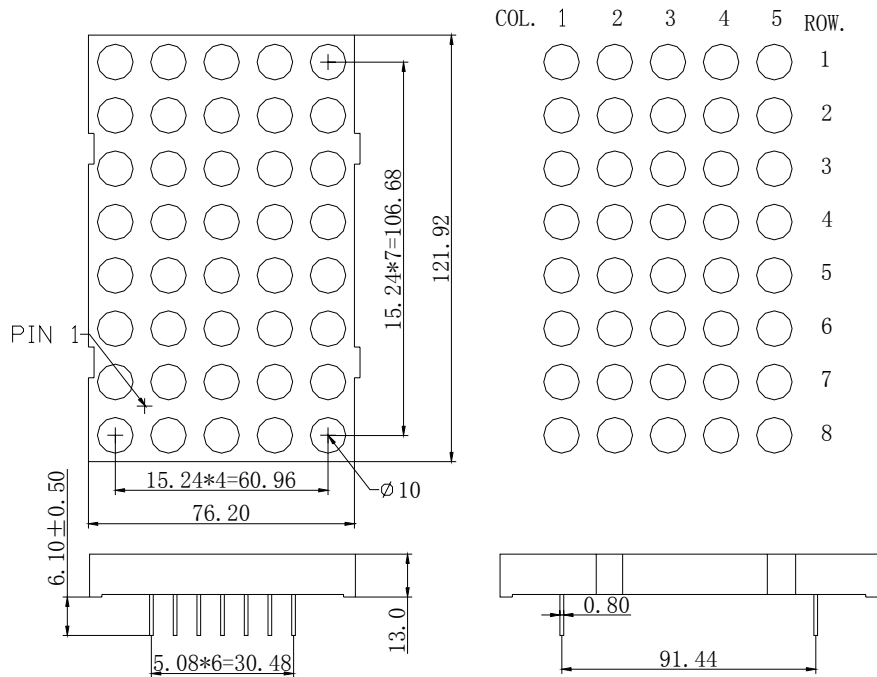
DESCRIPTION

The REC-M4058AG is a ϕ 10.0 dot size, 76.20mm×121.92mm 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.

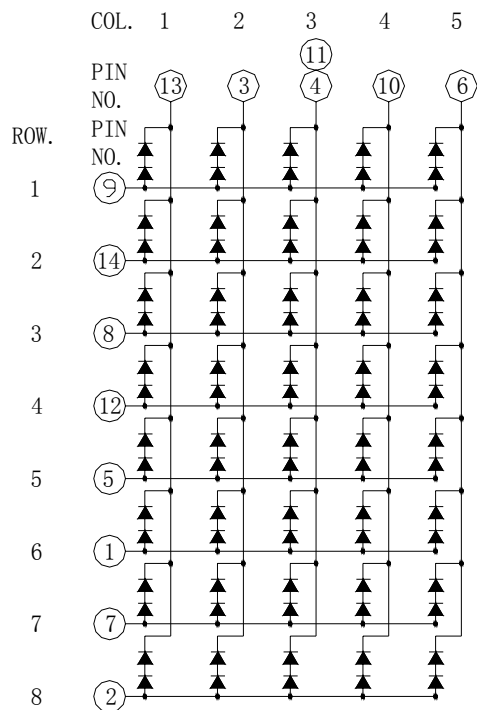
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M4058AG	Yellow-Green	Row Anode, Black face, White dot

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

ABSOLUTE MAXIMUM RATING AT T_A=25° C

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per dot	P _{AD}	150	mW
Peak Forward Current per dot (1/10 duty cycle, 0.1ms pulse width)	I _{PF}	100	mA
Continuous Forward Current per dot	I _{AF}	20	mA
Reverse Voltage per dot	V _R	10	V
Operating Temperature Range, T _{opr}	- 25° C to + 80° 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	10	12	13
Peak Emission Wavelength, λ _p (I _F =20mA)	nm		570	
Special Line Half-Width, Δλ (I _F =20mA)	nm		20	
Forward Voltage per chip, V _F (I _F =20mA)	V	2.1	2.3	2.5
Reverse Current per chip, I _R , (V _R =5V)	μA			100
Luminous Intensity Matching Ratio, I _{V-m} (I _F =20mA)				2 : 1