

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

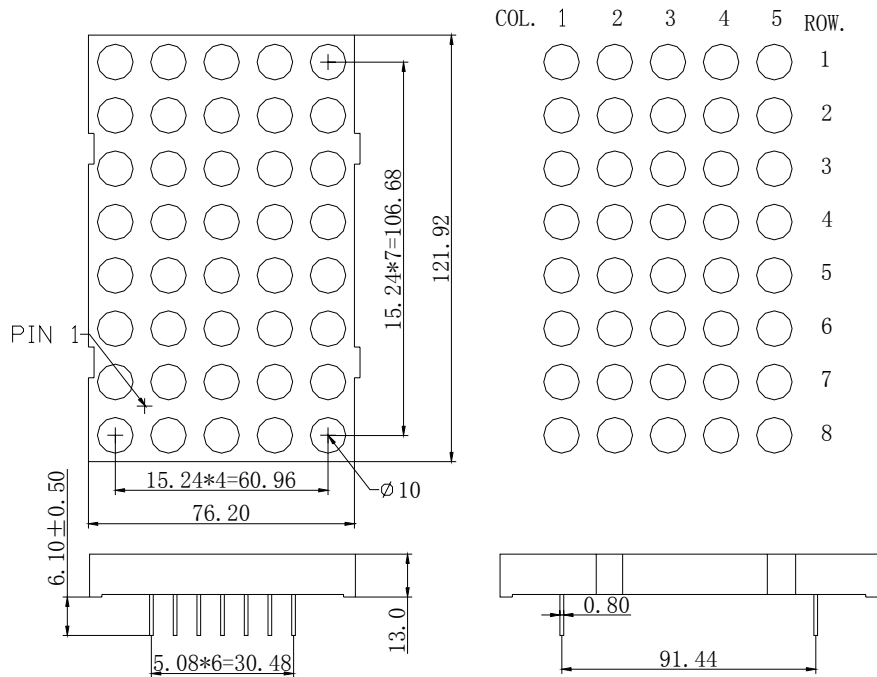
DESCRIPTION

The REC-M4058ASR 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 super-red LED chips fabricated from GaAlAs epiwafer on GaAs substrate grown by liquid phase epitaxy. The devices have black face and white dots.

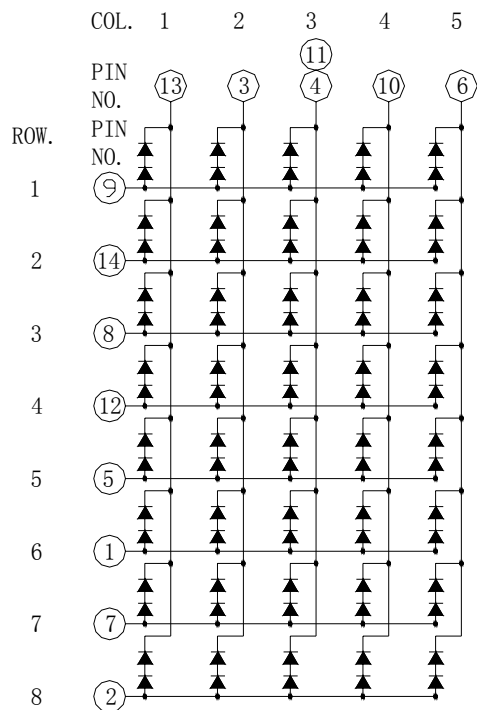
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M4058ASR	Super-Red	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}	120	mW
Peak Forward Current per dot (1/10 duty cycle, 0.1ms pulse width)	I _{PF}	80	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		640	
Special Line Half-Width, Δλ (I _F =20mA)	nm		20	
Forward Voltage per chip, V _F (I _F =20mA)	V	1.6	1.8	2.1
Reverse Current per chip, I _R , (V _R =5V)	μA			100
Luminous Intensity Matching Ratio, I _{V-m} (I _F =20mA)				2 : 1