RAYCONN™

RAYCONN ELECTRONICS CO., LTD.

SPECIFICATION FORM

FEATURES

- ✧ Φ3.0MM DOT SIZE
- ✧ 32.00MM×32. 00MM OUTLINE
- ✧ 8×8 FORMAT
- ✧ SINGLE COLOR DOT MATRIX
- ✧ LOW POWER REQUIREMENT
- ✧ EASY ASSEMBLY
- ✧ SOLID STATE RELIABILITY

DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M1388CSR	Super-Red	Column Cathode, Black face, White dots

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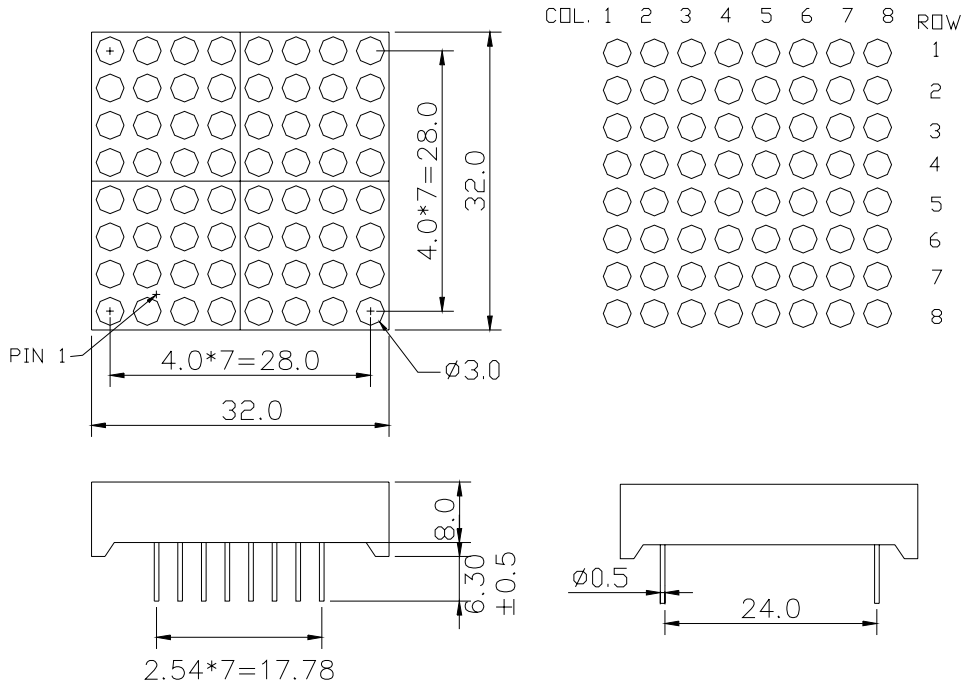
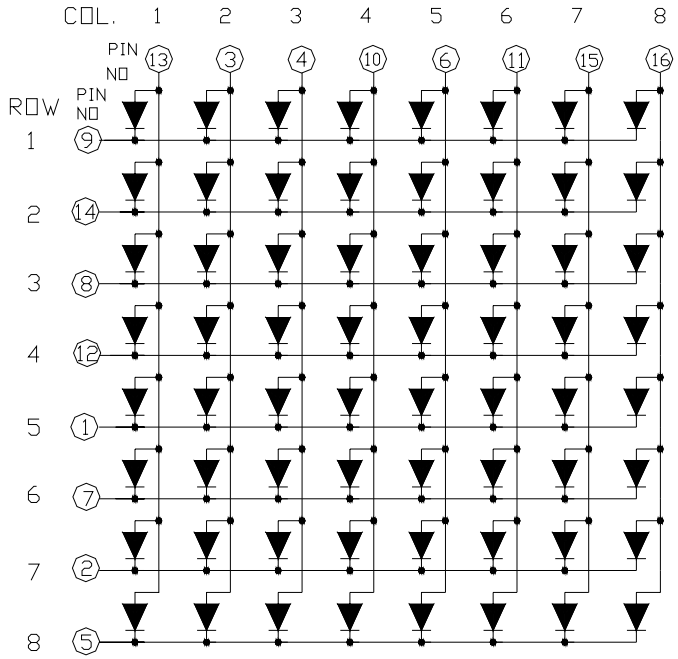
PACKAGE DIMENSION



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 (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	5	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 dot, I_V (I_F=20mA)	mcd	10	12	15
Peak Emission Wavelength, λ_P (I_F=20mA)	nm		640	
Special Line Half-Width, $\Delta\lambda$ (I_F=20mA)	nm		20	
Forward Voltage per dot, V_F (I_F=20mA)	V	1.60	1.80	2.00
Reverse Current per dot, I_R, (V_R=5V)	μA			100
Luminous Intensity Matching Ratio, I_{V-m} (I_F=20mA)				2 :1

Notes:

(1) All dimensions are in millimeters.

(2) Tolerance is ±0.25mm unless otherwise noted.