

SPECIFICATION FORM**FEATURES**

- ◇ Φ 3.0MM DOT SIZE
- ◇ 23.0MM×39.10MM OUTLINE
- ◇ 5×7 FORMAT
- ◇ SINGLE COLOR DOT MATRIX
- ◇ LOW POWER REQUIREMENT
- ◇ EASY ASSEMBLY
- ◇ SOLID STATE RELIABILITY

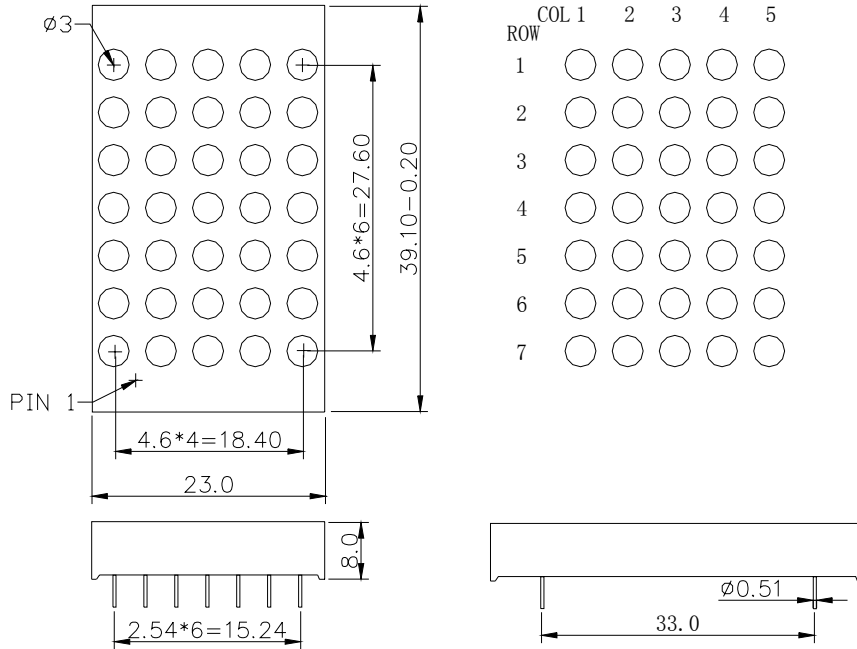
DESCRIPTION

The REC-M1057CG is a ϕ 3.0 dot size, 23.0mm×39.10mm outline, 5×7 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.

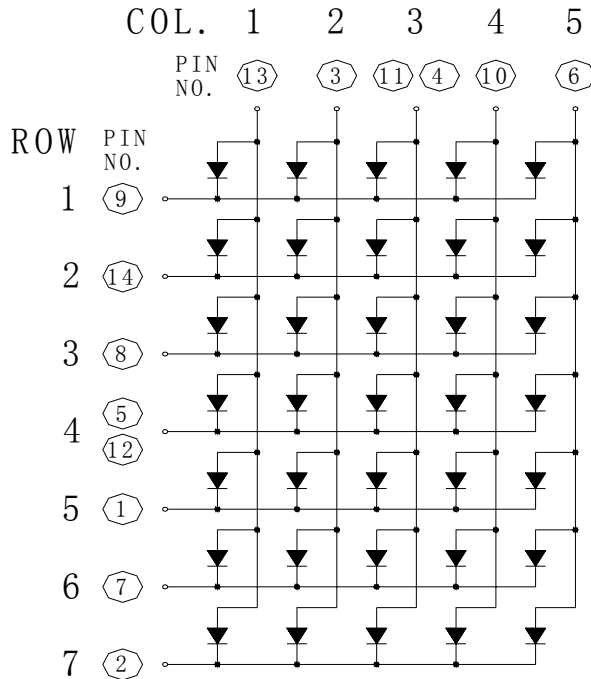
DEVICE

PART NO.	EMITTING COLOR	DESCRIPTION
REC-M1057CG	Yellow-Green	Row Cathode Black face, White dot

PACKAGE DIMENSION



INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

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

ABSOLUTE MAXIMUM RATING AT T_A=25° C

PARAMETER	SYMBOL	MAXIMUM	UNIT
Power Dissipation per dot	P _{AD}	75	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 + 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	UNIT	MIN	TYPE	MAX
Luminous Intensity per chip, I _V (I _F =20mA)	mcd	6	10	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