

**Product :**  
**1.2" DOT-MATRIX DISPLAY**

**Part Number :**  
VAOM-C12571G-BW/40  
VAOM-A12571G-BW/40

**Description**

Chip Material-G: GaP/GaP.  
Emitted Color: Yellow Green.  
Black Face & White Dot.

VAOM-C12571G-BW/40  
Column Cathode, Row Anode.

VAOM-A12571G-BW/40  
Column Anode, Row Cathode.

Absolute Maximum Ratings at Ta=25°C

| Parameter   | Symbol | Yellow Green | Unit |
|---|--------|--------------|------|
| Power dissipation per dice  | PAD    | 70           | mW   |
| Derating Liner from 25°C per dice                                       | -      | 0.33         | mA°C |
| Continuous forward current per dice                                     | IAF    | 25           | mA   |
| Peak current per dice (duty cycle 1/10, 1kHz)                           | IPF    | 90           | mA   |
| Reverse voltage per dice  | VR     | 5            | V    |
| Operating temperature   | Topr   | -25 to +85   | °C   |
| Storage temperature   | Tstg   | -25 to +85   | °C   |
| Solder temperature 1/16 inch below seating plane for 5 seconds at 260°C |        |              |      |

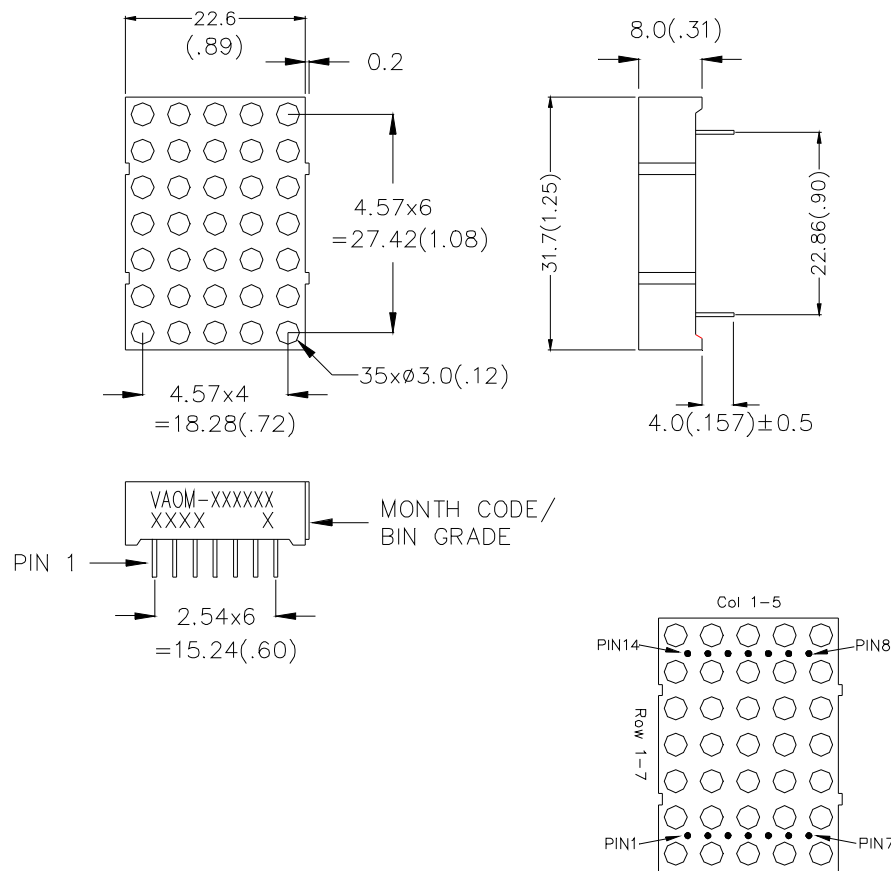
Electrical / Optical Characteristics and Curves at Ta=25°C

| Parameter                    | Symbol           | Test Condition | Min. | Typ. | Max. | Unit    |
|------------------------------|------------------|----------------|------|------|------|---------|
| Forward Voltage per dot      | VF               | IF=20 mA       |      | 2.1  | 2.8  | V       |
| Luminous intensity per dot   | IV               | IF=20 mA       |      | 12   |      | mcd.    |
| Peak emission wavelength     | $\lambda d$      | IF=20 mA       |      | 565  |      | nm      |
| Spectrum radiation bandwidth | $\Delta \lambda$ | IF=20 mA       |      | 30   |      | nm      |
| Reverse Current              | IR               | VR=5 V         |      |      | 100  | $\mu A$ |

\* Tolerance :  $\pm 20\%$ .

## Package Dimension & Internal Circuit

- \* 1.2 inch (30.42mm) Matrix height.
- \* 5\*7 array.
- \* Description: VAOM-C12571. Column Cathode , Row Anode .
- \* Description: VAOM-A12571. Column Anode , Row Cathode .

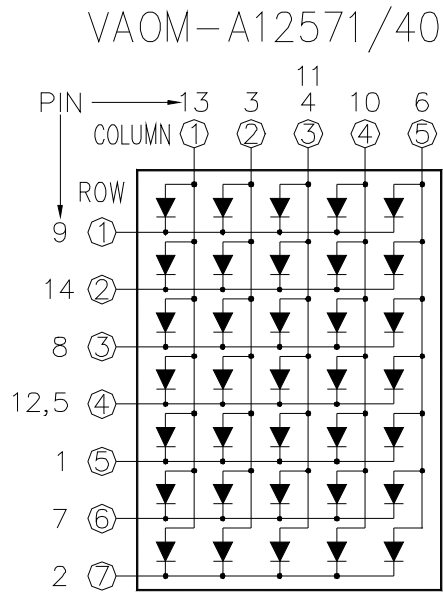
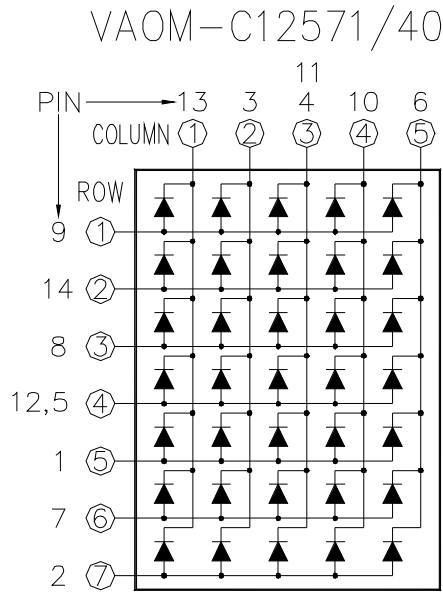


**NOTE:**

1. All pins are ø0.51(.02)
2. Dimension in millimeter (inch), and tolerance is ±0.30 (.01) unless otherwise noted.

VER\_B-08-12-P40

Internal Circuit



Cathode(-) Anode(+)

VER\_B-08-12-P40



# GREEN

## Typical Electro-optical Characteristic Curves (25°C Free Air Temperature Unless Otherwise Specified)

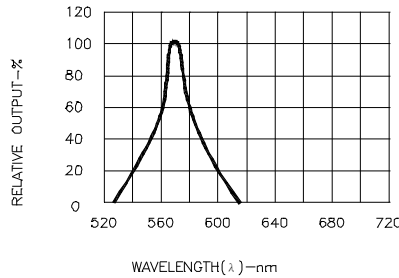


Fig.1 SPECTRAL RESPONSE

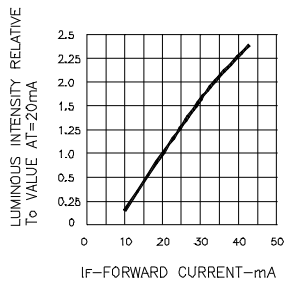


Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

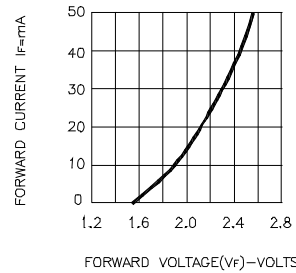


Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

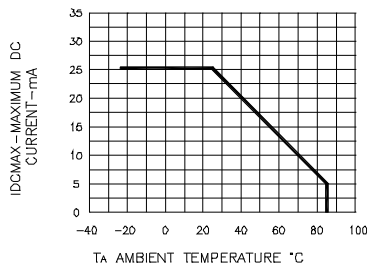


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. AMBIENT TEMPERATURE

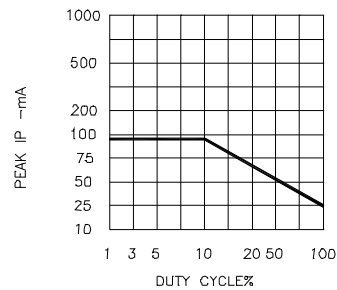


Fig.5 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1KHz)