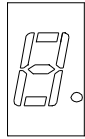




**THE DATASHEET OF
VAOS-A402G9-BW/50**





Product :
0.40 " SINGLE DIGIT DISPLAY

Part Number :
VAOS-C402G9-BW/50
VAOS-A402G9-BW/50

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

VAOS-C402G9-BW/50
Common Cathode.

VAOS-A402G9-BW/50
Common Anode.

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 3 seconds at 260°C | | | |

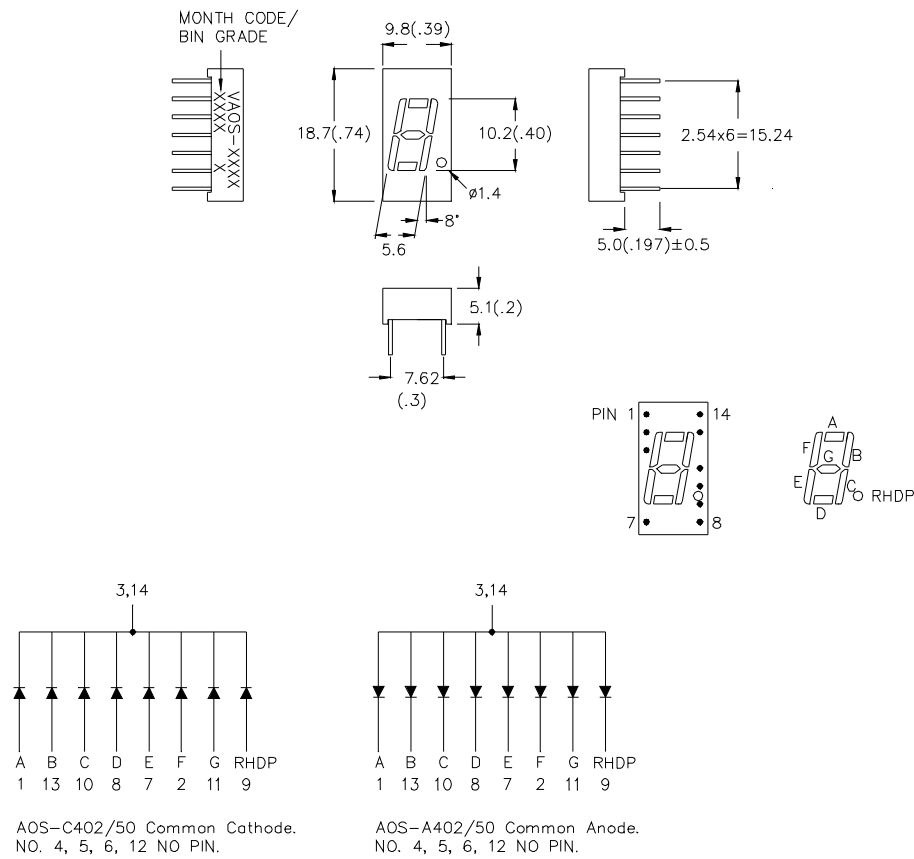
Electrical / Optical Characteristics and Curves at Ta=25°C

| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|--------------------------------|------------------|----------------|------|------|------|---------|
| Forward Voltage per segment | VF | IF=20 mA | | 2.1 | 2.8 | V |
| Luminous intensity per segment | IV | IF=20 mA | | 7.0 | | mcd. |
| Peak emission wavelength | λd | IF=20 mA | | 565 | | nm |
| Spectrum radiation bandwidth | $\Delta \lambda$ | IF=20 mA | | 30 | | Deg. |
| Reverse Current | IR | VR=5 V | | | 100 | μA |

* Tolerance : $\pm 20\%$.

Package Dimension & Internal Circuit

- * 0.4 inch (10.16mm) Digit height.
- * Case mold type.
- * Wide viewing angle.



NOTE:

1. All pins are $\phi 0.45 (.02)$.
2. Dimension in millimeter (inch), and tolerance is $\pm 0.30 (.01)$ unless otherwise noted.

VER_A-09-09-P50

GREEN

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

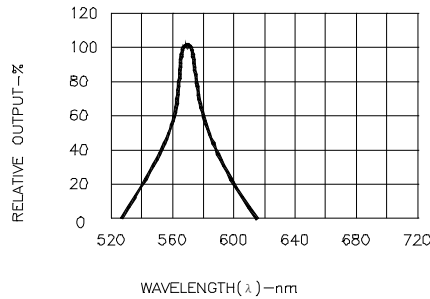


Fig.1 SPECTRAL RESPONSE

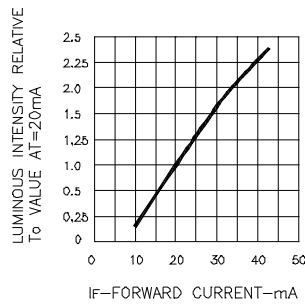


Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

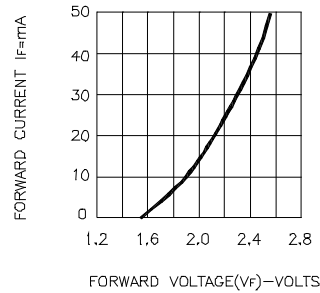


Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

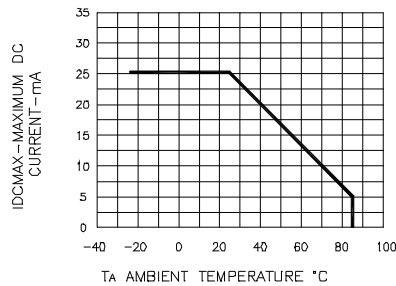


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. AMBIENT TEMPERATURE

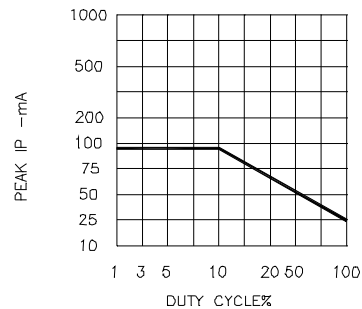


Fig.5 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1KHz)

Looking for pricing, stock, or lifecycle information?

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- ⊖ [Visual Communications Company - VCC Information](#)

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- ✓ Alternative Solution
- ✓ Excess Inventory Management