

Product :
0.4 " DUAL DIGIT DISPLAY

Part Number :
VAOD-C403G9-BW/45
VAOD-A403G9-BW/45

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

VAOD-C403G9-BW/45
Common Cathode.

VAOD-A403G9-BW/45
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 | | | |

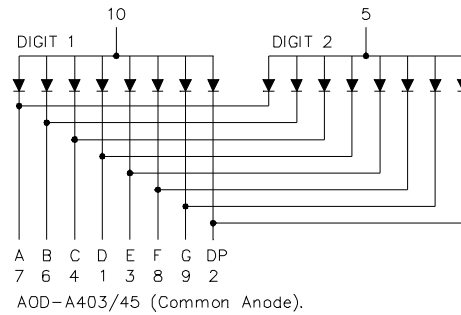
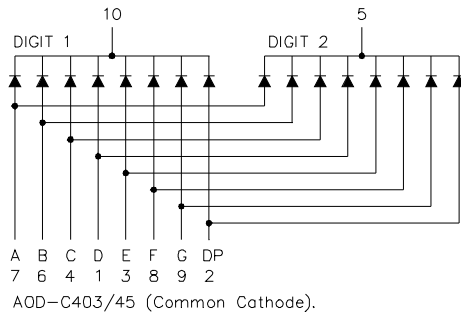
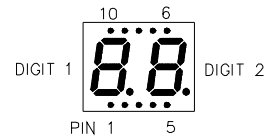
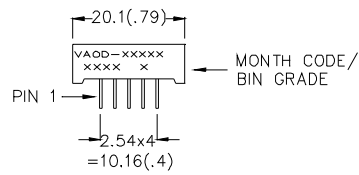
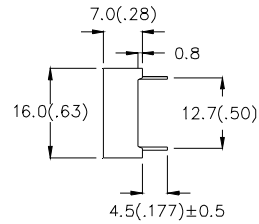
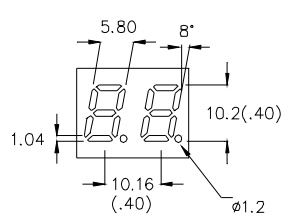
Electrical / Optical Characteristics and Curves at Ta=25°C

| 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 (10.2mm) Dight height.
- * Case mold type.
- * Wide viewing angle.



NOTE:

1. All pins are $\varnothing 0.51(.02)$
2. Dimension in millimeter (inch), and tolerance is $\pm 0.30 (.01)$ unless otherwise noted.

VER_A-09-02-P45

GREEN

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

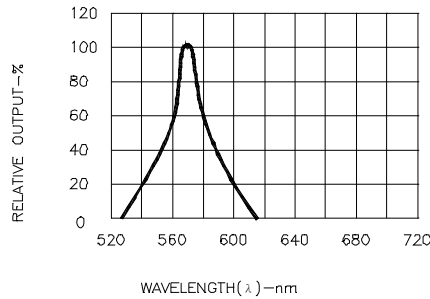


Fig.1 SPECTRAL RESPONSE

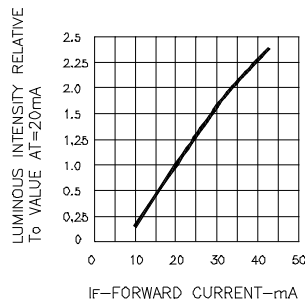


Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

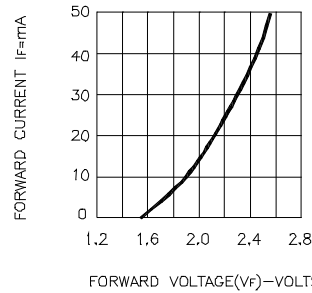


Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

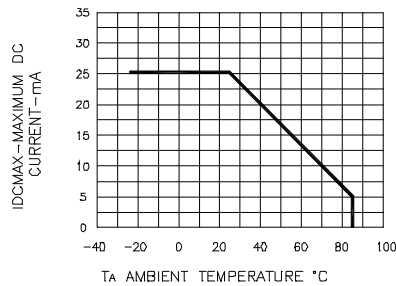


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

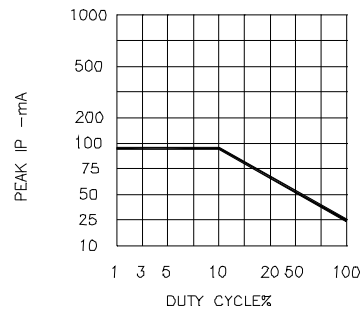


Fig.5 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1KHz)