

Product :
2.0" DOT-MATRIX DISPLAY

Part Number :
VAOM-C20571G-BW/40
VAOM-A20571G-BW/40

Description

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

VAOM-C20571G-BW/40
Column Cathode, Row Anode.

VAOM-A20571G-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			

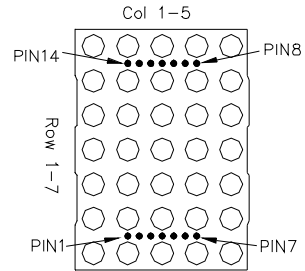
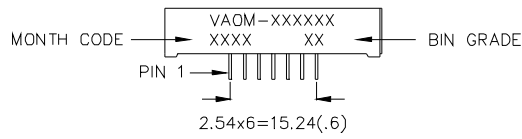
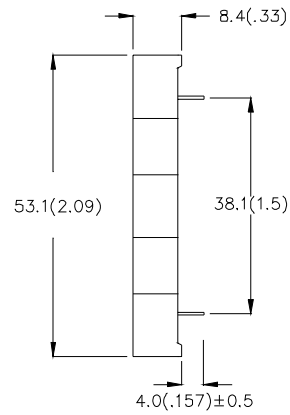
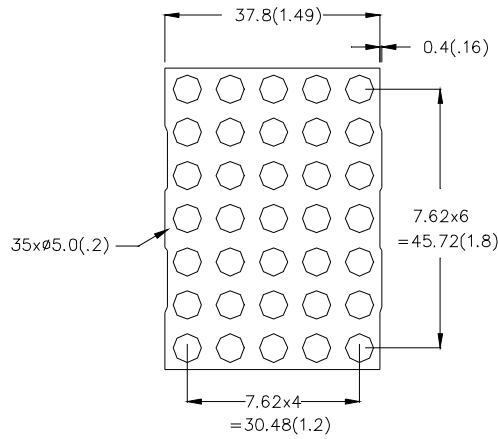
Electrical / Optical Characteristics and Curves at Ta=25°C

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		17		mcd.
Peak emission wavelength	λd	IF=20 mA		565		nm
Spectrum radiation bandwidth	$\Delta \lambda$	IF=20 mA		30		nm
Reverse Current	IR	VR=5 V			100	μA

* Tolerance : $\pm 20\%$.

Package Dimension & Internal Circuit

- * 2.0 inch (50.72mm) Matrix height.
- * 5*7 array.
- * Description: VAOM-C20571. Column Cathode, Row Anode.
- * Description: VAOM-A20571. Column Anode, Row Cathode.

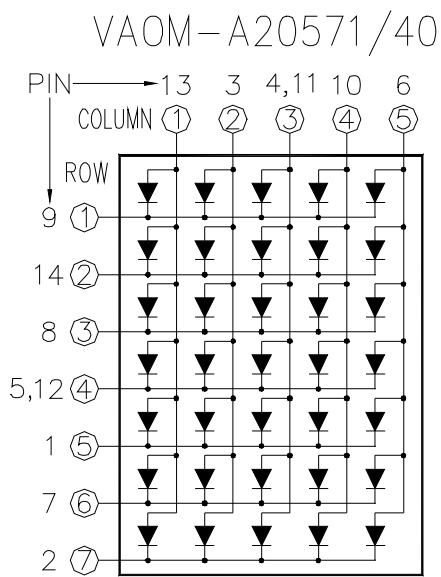
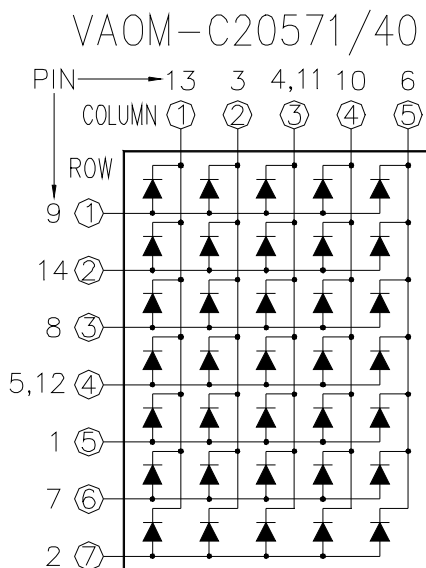


NOTE:

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

VER_D-09-12-P40

Internal Circuit



Cathode(-) ← Anode(+)

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GREEN

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

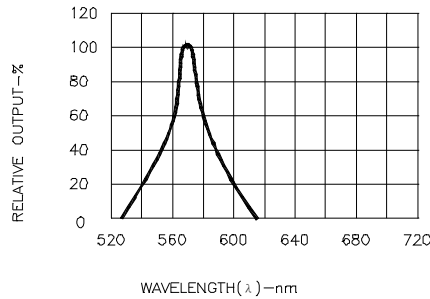


Fig.1 SPECTRAL RESPONSE

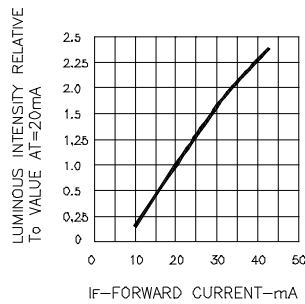


Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

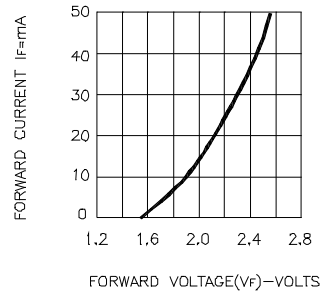


Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

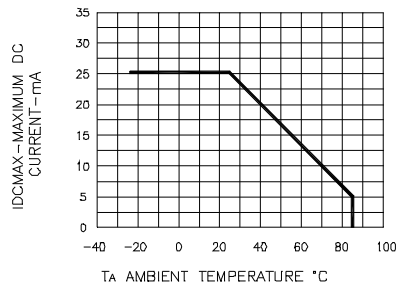


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE

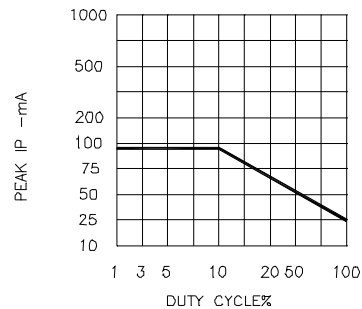


Fig.5 MAX PEAK CURRENT VS. DUTY CYCLE % (REFRESH RATE f=1KHz)