

Product :
1.2" DOT-MATRIX DISPLAY

Part Number :
VAOM-C12571S-BW/40
VAOM-A12571S-BW/40

Description

Chip Material-S: AlGaAs/GaAs.
Emitted Color: Super Bright Red.
Black Face & White Dot.

VAOM-C12571S-BW/40
Column Cathode, Row Anode.

VAOM-A12571S-BW/40
Column Anode, Row Cathode.

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Super Bright Red	Unit
Power dissipation per dice	PAD	75	mW
Derating Liner from 25°C per dice	-	0.42	mA°C
Continuous forward current per dice	IAF	30	mA
Peak current per dice (duty cycle 1/10, 1kHz)	IPF	150	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			

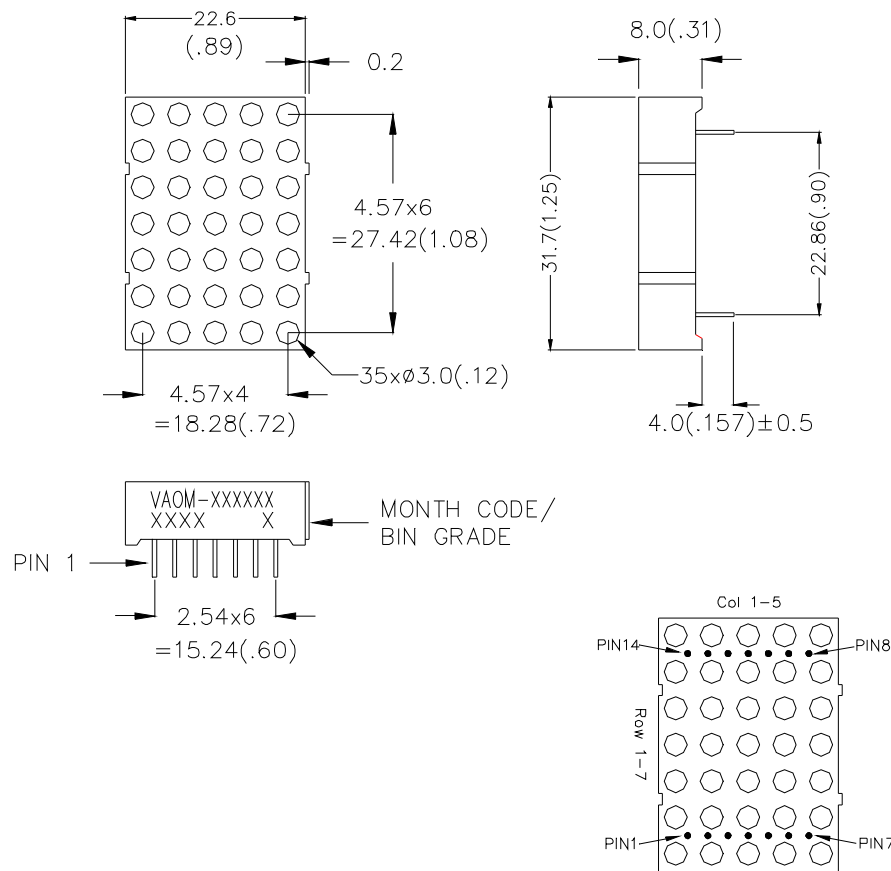
Electrical / Optical Characteristics and Curves at Ta=25°C

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage per dot	VF	IF=20 mA		1.8	2.5	V
Luminous intensity per dot	IV	IF=20 mA		13		mcd.
Peak emission wavelength	λd	IF=20 mA		660		nm
Spectrum radiation bandwidth	$\Delta \lambda$	IF=20 mA		20		nm
Reverse Current	IR	VR=5 V			100	μA

* 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 .

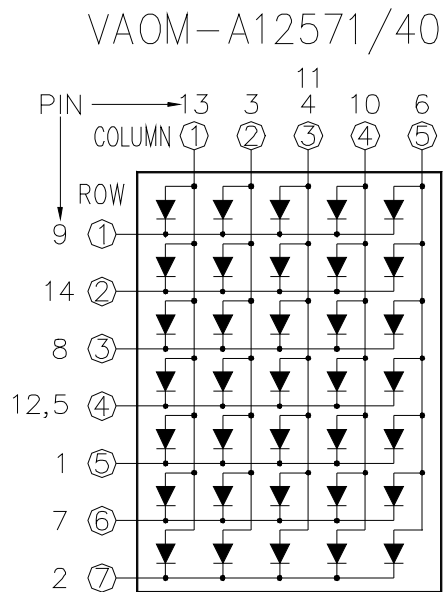
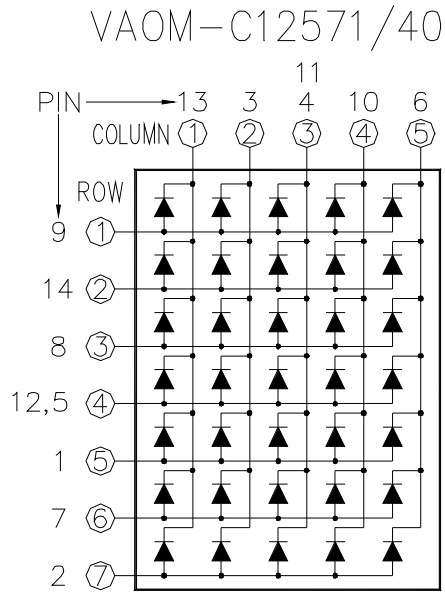


NOTE:

1. All pins are $\phi 0.51$ (.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

RED

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

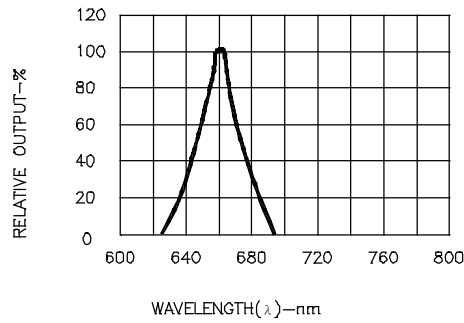


Fig.1 SPECTRAL RESPONSE

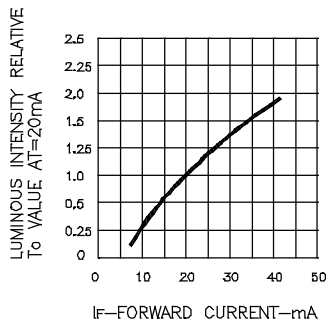


Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

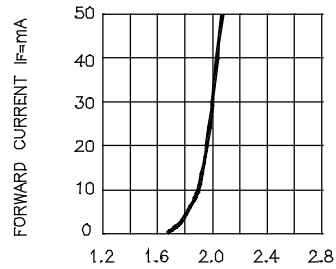


Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

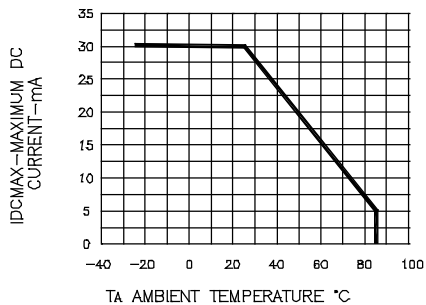


Fig.4 MAXIMUM ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCTION OF AMBIENT TEMPERATURE



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

Mouser Electronics

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