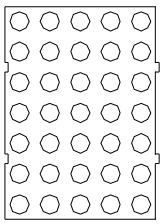

Product :
1.2“ DOT-MATRIX DISPLAY

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.

www.vcclite.com
190 bosstick blvd, ste 101
san marcos, ca 92069
phone 760.560.1300
fax 760.560.1301

VCC | OPTOELECTRONICS
lighting:theway

Absolute Maximum Ratings at Ta＝25℃

Parameter	Symbol	Yellow Green	Unit
Power dissipation per dice	PAD	70	mW
Derating Liner from 25℃ per dice	-	0.33	mA/℃
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	℃
Storage temperature	Tstg	-25 to +85	℃
Solder temperature 1/16 inch below seating plane for 5 seconds at 260℃			

Electrical / Optical Characteristics and Curves at Ta＝25℃

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	λd	IF＝20 mA		565		nm
Spectrum radiation bandwidth	△λ	IF＝20 mA		30		nm
Reverse Current	IR	VR＝5 V			100	μA

* Tolerance : ±20%.

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RoHS
ISO 9001 Registered

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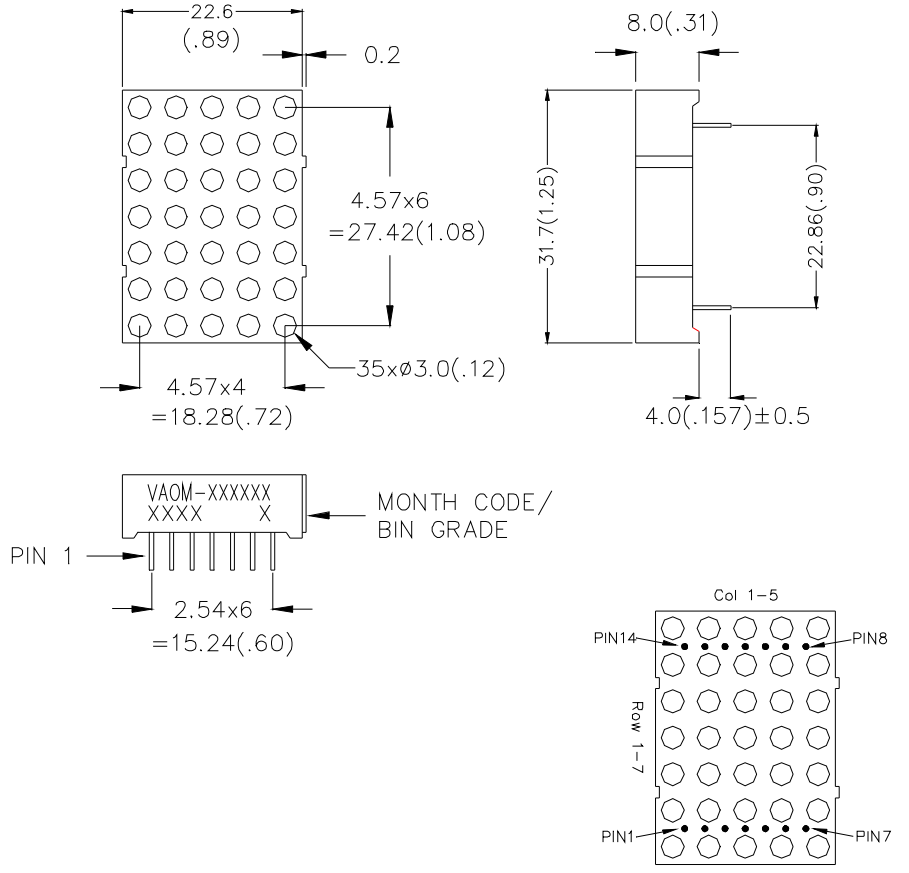
Package Dimension & Internal Circuit

* 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.

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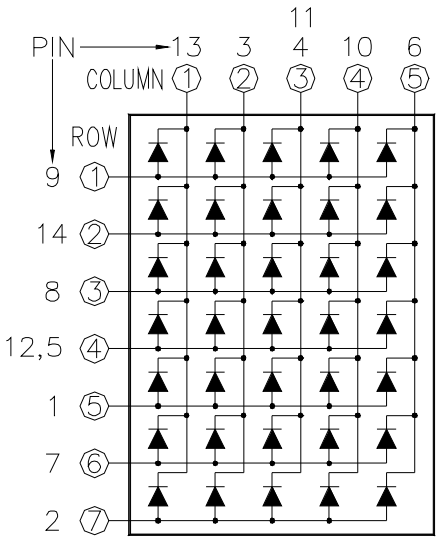
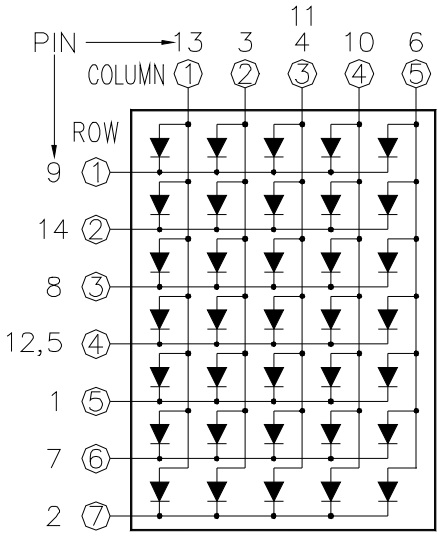
Internal Circuit

VAOM-C12571/40



VAOM-A12571/40



Cathode(-) Anode(+)

VER_B-08-12-P40

GREEN

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

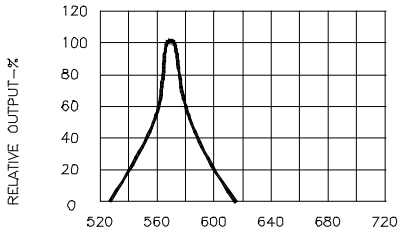


Fig.1 SPECTRAL RESPONSE

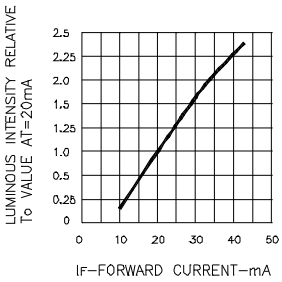


Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

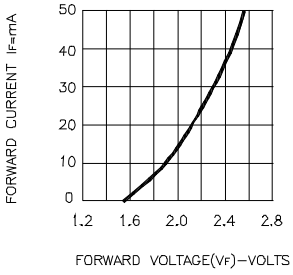


Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

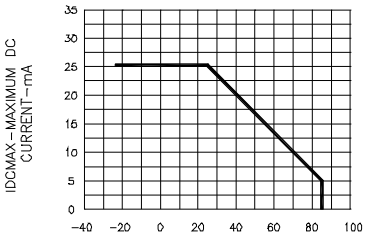


Fig.4 MAXIMUN ALLOWABLE DC CURRENT PER SEGMENT VS. A FUNCITION OF AMBIENT TEMPERATURE

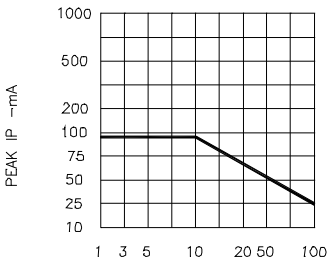


Fig.5 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE f=1KHz)