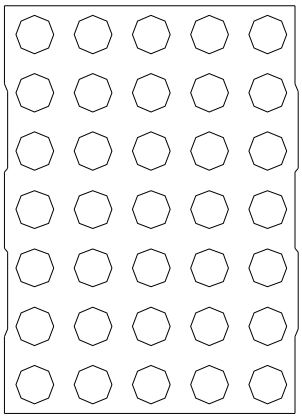

Product :
2.0“ DOT-MATRIX DISPLAY

Part Number :
VAOM-C20571S-BW/40
VAOM-A20571S-BW/40

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

VAOM-C20571S-BW/40
Column Cathode,Row Anode.

VAOM-A20571S-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	Super Bright Red	Unit
Power dissipation per dice	PAD	75	mW
Derating Liner from 25℃ per dice	-	0.42	mA/℃
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	℃
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		1.8	2.5	V
Luminous intensity per dot	IV	IF＝20 mA		18		mcd.
Peak emission wavelength	λd	IF＝20 mA		660		nm
Spectrum radiation bandwidth	△λ	IF＝20 mA		20		nm
Reverse Current	IR	VR＝5 V			100	μA

* Tolerance : ±20%.

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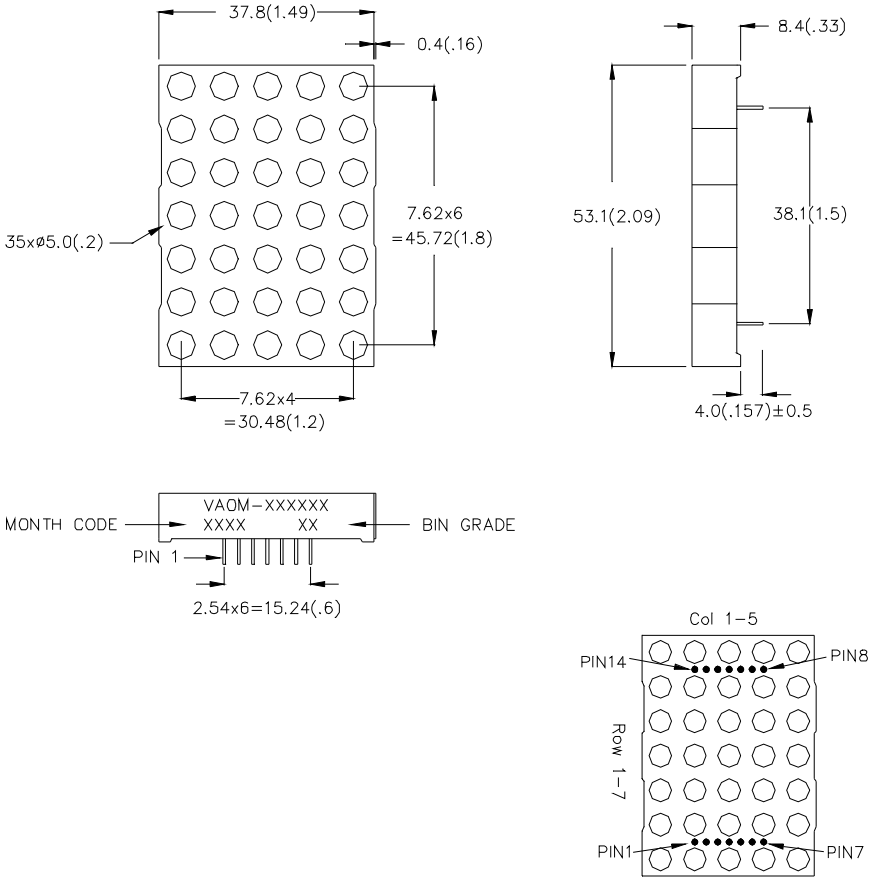
Package Dimension & Internal Circuit

* 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 ø0.51(.02)
2. Dimension in millimeter (inch), and tolerance is ±0.30 (.01) unless otherwise noted.

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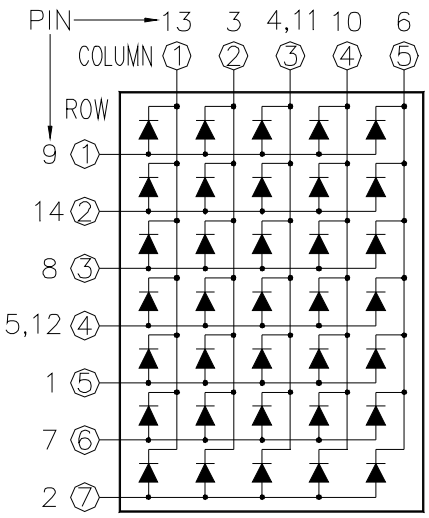
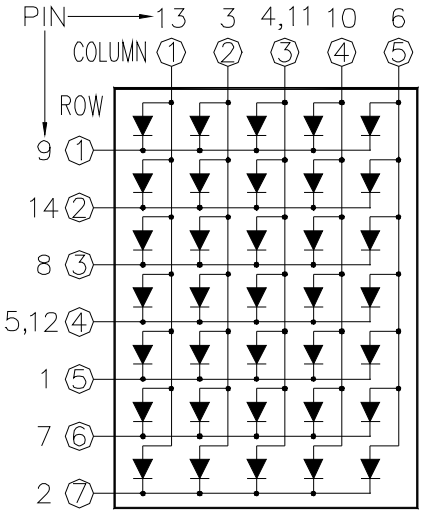
Internal Circuit

VAOM-C20571/40



VAOM-A20571/40



Cathode(-) Anode(+)

VER_D-09-12-P40

RED

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

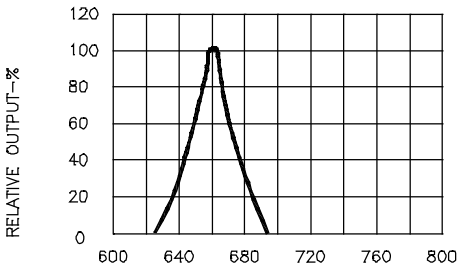


Fig.1 SPECTRAL RESPONSE

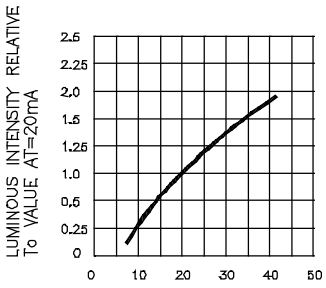


Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

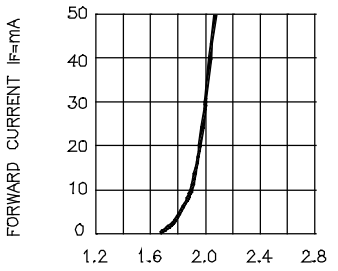


Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

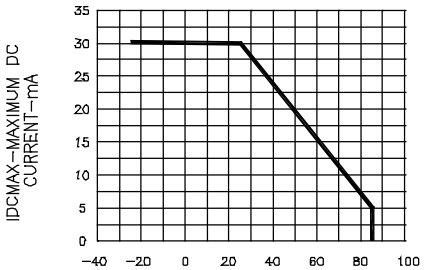


Fig.4 MAXIMUN ALLOWABLE DC CURRENT PER SEGMENT VS, A FUNCITION OF AMBIENT TEMPERATURE

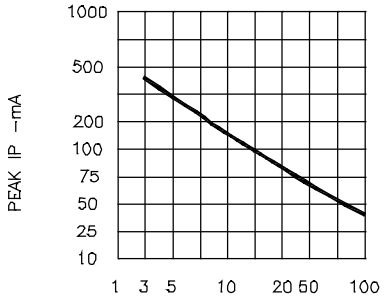


Fig.5 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE f=1KHz)