

**Product :**
0.7“ DOT-MATRIX DISPLAY

**Part Number :**
VAOM-C07573S9-BW/32
VAOM-A07573S9-BW/32

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

VAOM-C07573S9-BW/32
Column Cathode,Row Anode.

VAOM-A07573S9-BW/32
Column Anode,Row Cathode.

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

RoHS
ISO 9001
Registered

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 3 seconds at 260℃ | | | |

Electrical / Optical Characteristics and Curves at Ta＝25℃

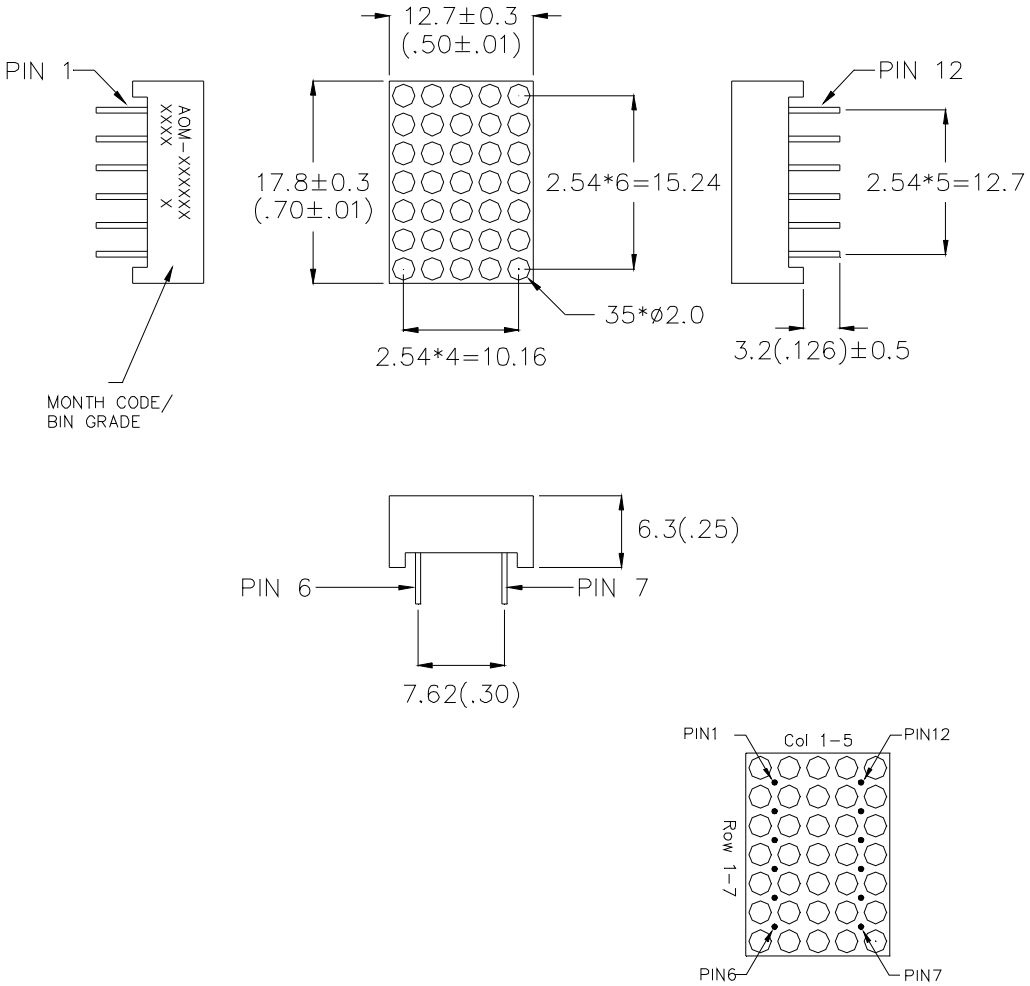
| Parameter | Symbol | Test Condition | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|---|
| Forward Voltage per dot | VF | IF＝20 mA | | 1.8 | 2.5 | V |
| Luminous intensity per dot | IV | IF＝20 mA | | 10 | | mcd. |
| Peak emission wavelength | λd | IF＝20 mA | | 660 | | nm |
| Spectrum radiation bandwidth | △λ | IF＝20 mA | | 20 | | nm |
| Reverse Current | IR | VR＝5 V | | | 100 | μA |

* Tolerance : ±20%.

www.vcclite.com
190 bosstick blvd, ste 101
san marcos, ca 92069
phone 760.560.1300
fax 760.560.1301
RoHS
ISO 9001 Registered

## Package Dimension & Internal Circuit

* 0.7 inch (17.2mm) Matrix height.
* 5*7 array.
* Description: VAOM-C07573. Column Cathode, Row Anode.
* Description: VAOM-A07573. Column Anode, Row Cathode .

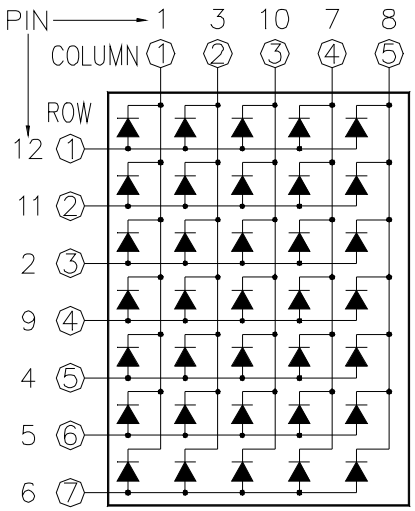



NOTE:
1. All pins are ø0.45(.018) .
2. Dimension in millimeter (inch), and tolerance is ±0.30 (.01) unless otherwise noted.

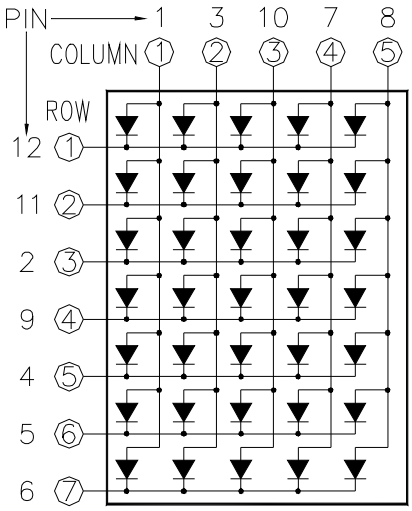
VER_A-09-04-P32

## Internal Circuit

VAOM-C07573/32




VAOM-A07573/32




Cathode(-) Anode(+)

VER_A-09-04-P32

# RED

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

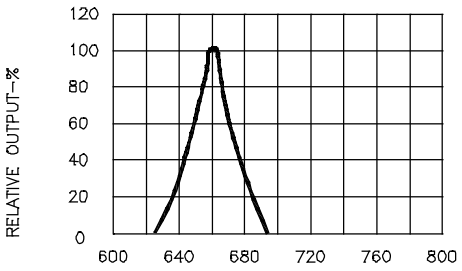



Fig.1 SPECTRAL RESPONSE

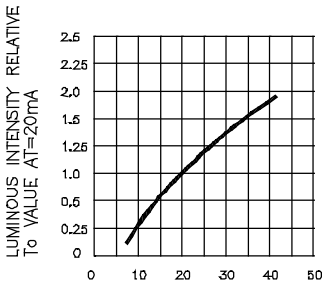



Fig.2 RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT

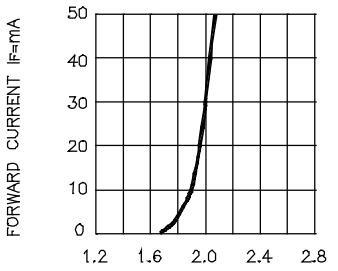



Fig.3 FORWARD CURRENT VS FORWARD VOLTAGE

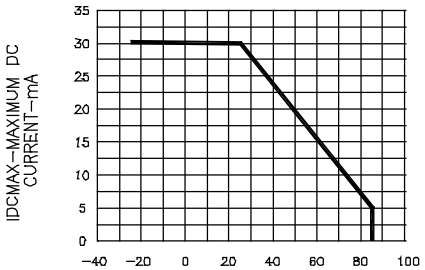



Fig.4 MAXIMUN ALLOWABLE DC CURRENT PER SEGMENT VS, A FUNCITION OF AMBIENT TEMPERATURE

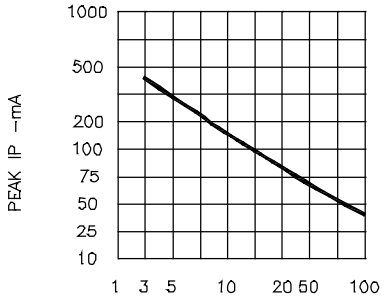



Fig.5 MAX PEAK CURRENT VS. DUTY CYCLE %
(REFRESH RATE f=1KHz)