MINISTRY OF SUPPLY - DLRD(A)/RRE

VALVE ELECTRONIC **CV2264**

| Specification MOS(A)/CV2264<br>Issue 2 Dated 1. 2. 54.<br>To be read in conjunction with K1001. | SECURITY<br>Specification: UNCLASSIFIED<br>Valve: UNCLASSIFIED |
|---|---|

→ Indicates a change

**TYPE OF VALVE** - High Vacuum Diode
**CATHODE** - Indirectly-heated
**ENVELOPE** - Glass
**PROTOTYPE** - VX6110

**RATING**

| | | Note |
|---|---|---|
| **Heater Voltage** (V) | 4.0 | |
| **Heater Current** (A) | 5.0 | |
| **Max. Peak Inverse Voltage** (kV) | 6.5 | AB |
| **Max. Fault Peak Inverse Voltage** (kV) | 9.0 | AC |
| **Max. Peak Anode Current** (A) | 26.0 | AB |
| **Max. Fault Peak Anode Current** (A) | 35.0 | AB |
| **Max. Anode Dissipation** (W) | 15.0 | |
| **Approx. Impedance at 26A peak** (ohms) | 29.0 | |

**MARKING**

See K1001/4

**BASE**

B4A

**CONNECTIONS**

| Pin | Electrode |
|---|---|
| 1 | Heater |
| 2 | Strapped to Pin 4 |
| 3 | Strapped to Pin 1 |
| 4 | Heater and Cathode |
| TC | Anode |

**TOP CAP**

**See K1001/A1/D5.2**

**DIMENSIONS**

See K1001/A1/D1.

| Dimension (mm) | Min. | Max. |
|---|---|---|
| A | - | 145 |
| B | - | 58 |

**MOUNTING POSITION**

Any

**NOTES**

A. Absolute maximum value.

B. Tp = 2 μsec. max.

C. For 50 millisecs. max.

D. The heater must be switched on for 30 secs. before the anode voltage is applied.

## TESTS

To be performed in addition to those applicable in K1001.

| | Test Conditions | | | Test | Limits | | No. Tested | Note |
|---|---|---|---|---|---|---|---|---|
| | Vh (V) | Va (V) | Peak Ia (Amps) | | Min. | Max. | | |
| a | 4.0 | - | - | Ih (A) | 4.5 | 5.5 | 100% | |
| b | 4.0 | Adjust | 26 | Internal (ohms) resistance at full cathode heating, R1. | 22 | 38 | 100% | 1 |
| c | 3.6 Run for 20 secs. before commencing test. | Adjust | 26 | Internal (ohms) resistance at reduced cathode heating. | - | R1+25% or 42 ohms, whichever is lesser | 100% | 1 |
| d | 4.0 | Apply 9 kV peak in the reverse direction. Tp = 2 µsecs. PRF = 400 pps (approx. square pulse). Run for 2 mins. | | Reject for persistent flash-over | - | - | 100% | |

### NOTES

1. Tp = 1 µsec; PRF = 400 (approx, square pulse).
2. Before commencing any test, pre-heat for 5 mins. at Vh = 4.0V and Va = 240V RMS applied through a 240V 60W lamp.