

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

—————> Indicates a change

TYPE OF VALVE - High Vacuum Diode			<u>MARKING</u>	
CATHODE - Indirectly-heated			See K1001/4	
ENVELOPE - Glass			<u>BASE</u>	
PROTOTYPE - VX6110			B4A	
<u>RATING</u>			<u>CONNECTIONS</u>	
			Pin	Electrode
Heater Voltage (V)	4.0	Note AB AC AB AB	1	Heater
Heater Current (A)	5.0		2	Strapped to Pin 4
Max. Peak Inverse Voltage (kV)	6.5		3	Strapped to Pin 1
Max. Fault Peak Inverse Voltage (kV)	9.0		4	Heater and Cathode
Max. Peak Anode Current (A)	26.0		TC	Anode
Max. Fault Peak Anode Current (A)	35.0			
Max. Anode Dissipation (W)	15.0		<u>TOP CAP</u>	
Approx. Impedance at 26A peak (ohms)	29.0		See K1001/A1/D5.2	
			<u>DIMENSIONS</u>	
			See K1001/A1/D1.	
			Dimension (mm)	Min. Max.
			A	- 145
			B	- 58
			<u>MOUNTING POSITION</u>	
			Any	

NOTES

- A. Absolute maximum value.
- B. $T_p = 2 \mu\text{sec. max.}$
- 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 resistance at full cathode heating, R _i .	22	38	100%	1
c	3.6 Run for 20 secs. before commencing test.	Adjust	26	Internal resistance at reduced cathode heating.	-	R _i + 25% or 42 ohms, which- ever is lesser	100%	1
d	4.0	Apply 9 kV peak in the reverse direction. T _p = 2 μsecs. PRF = 400 pps (approx. square pulse). Run for 2 mins.		Reject for persistent flash-over	-	-	100%	

NOTES

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