

Specification MOS(A)/CV2235 Issue 4 Dated 11.10.54. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

TYPE OF VALVE - Half-wave Rectifier				<u>MARKING</u>		
CATHODE - Indirectly-heated				See K1001/4		
ENVELOPE - Glass - Unmetallised				<u>BASE</u>		
PROTOTYPE - VX8091; VX7087; E2214				B9A		
<u>RATING</u>				<u>CONNECTIONS</u>		
			Note	Pin	Electrode	
Heater Voltage	(V)	6.3		1	Internally connected	
Heater Current	(A)	1.15		2	Internally connected	
Max. Peak Inverse Voltage	(kV)	1.8	A	3	Cathode	
Max. Reservoir Condenser	(µF)	16		4	Heater	
Max. Peak Anode Current	(mA)	900	A	5	Heater	
Design Centre Voltage Drop at 150 mA	(V)	22		6	Internally connected	
Max. Heater - Cathode Voltage	(V)	650	B	7	Internally connected	
<u>625V RMS Operation (Note C)</u>				8	Internally connected	
Max. Mean Anode Current	(mA)	125		9	Internally connected	
Min. Limiting Resistance	(ohms)	250		TC	Anode	
<u>500V RMS Operation (Note D)</u>				<u>TOP CAP</u>		
Max. Mean Anode Current	(mA)	150		See K1001/A1/D5.2		
Min. Limiting Resistance	(ohms)	150		<u>DIMENSIONS</u>		
				See K1001/A1/D4		
				Dimensions (mm)	Min.	Max.
				A	-	83
				B	-	22.2
				L	70	75
				<u>MOUNTING POSITION</u>		
				Any		

NOTES

- A. Absolute maximum value.
- B. Cathode positive
- C. At 625-0-625V RMS input, condenser input filter, two valves giving a total of 250 mA.
- D. At 500-0-500V RMS input, condenser input filter, two valves giving a total of 300 mA.

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TESTS

To be performed in addition to those applicable in K1001

Test Conditions				Test	Limits		No. Tested	Note
Vh	Va	Ia(mA)	Min.		Max.			
a	6.3	0	0	Ih (A)	0.9	1.4	100%	
b	6.3	Adjust	150	Va (DC) (V)	18	26	100%	
c	6.3	625 RMS	-	Output Current (mA)	140	-	100%	1, 2 & 3
d	6.3	625 RMS	125	Valve when switched directly from cold shall exhibit no internal flashing or sparking.			TA	

NOTES

1. Measured in a half-wave circuit with the total supply impedance (including transformer) adjusted to 250 ohms, using a total load resistance of 4,100 ohms and a reservoir condenser of 16 μ F. The anode voltage shall be measured direct from anode to earth using a normal rectifier meter.
2. The valve shall have operated at 625V RMS, 150 mA min. continuously for a minimum period of two minutes before this test is performed. This may be on a pre-heating schedule.
3. During this test the valve shall not exhibit sustained sparking or flashing when tapped.

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