

MINISTRY OF SUPPLY (S.R.D.E.)

Specification: MOS/CV20/Issue 3 Dated: 30/11/46 To be read in conjunction with K1001, ignoring clauses: 5.2 and 5.8	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

→ indicates a change

<u>TYPE OF VALVE:</u> High vacuum half wave Rectifier		<u>MARKING</u>	
<u>CATHODE:</u> Directly heated		See K1001/4	
<u>ENVELOPE:</u> Glass unmetallised			
<u>PROTOTYPE:</u> V1906			
<u>RATING</u>		<u>BASE</u> B 4	
		Note	
Filament voltage	4.0	Pin	Electrode
Nominal filament current (A)	2.5	1	No connection
Max. applied R.M.S. volts	1550	2	No connection
Max. working Peak inverse volts	4000	3	Filament
Max. no load peak inverse volts	4400	4	Filament
Max. mean D.C. rectified current (mA)	75	T.C.	Anode
Max. peak anode current (mA)	600	<u>TOP CAP</u> See K1001/AI/D5.1	
Max. reservoir condenser (μF)	2	<u>DIMENSIONS</u> See K1001/AI/D1	
Min. limiting resistance introduced externally (ohms)	500		
(Ratings apply to condenser input filter and 50 c.p.s. supply)			
		<u>Dimensions</u>	<u>Min.</u> <u>Max.</u>
		A mm	159 168
		B mm	- 68
		L mm	143 152

NOTES.

- A. Filament voltage to be applied for at least 10 seconds before anode supply.

This valve type is obsolete and this specification is for record purposes only.

TESTS

To be performed in addition to those applicable in K1001

	Test conditions		Test	Limits		No: tested
				Min.	Max.	
a	Vf	Va	If (A)	-	2.75	100% or S
	4.0 A.C. or D.C.					
b	4.0 A.C. or D.C.	65 D.C. max	Ia (mA)	150	-	100%
c	4.0 A.C.	Input voltage 1550V. R.M.S. Frequency 50 c.p.s. D.C. Load 75 mA (Nominal) Reservoir conden- ser 2 μ F Effective resist- ance per anode introduced exter- nally 500 ohms	<u>Load Test Run 3</u> minutes - after the 1st minute switch anode supply off and on - repeat this switching every succeeding $\frac{1}{2}$ minute until the end of a total 3 minutes - reject for softness or persistent flash- over			100%