

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

Specification: MOS/CV31/Issue 4	SECURITY
Dated 10/9/51	
To be read in conjunction with K1001, ignoring clauses:- 5.2 and 5.8	Specification Valve Unclassified Unclassified
→ indicates a change	

TYPE OF VALVE:-High vacuum full wave rectifier		MARKING	
CATHODE:-	Directly heated	See K1001/4	
ENVELOPE:-	Glass - unmetallised		
PROTOTYPE:-	U20, FW4/500 (Mod)		
RATING		BASE B 4	
		Note	
Filament voltage	4.0	Pin	Electrode
Nominal filament current (A)	3.0	1	Anode 1
Max.applied R.M.S. voltage (V)	850	2	Anode 2
Max.working peak inverse volts	2200	3	Filament
Max.No load peak inverse volts	2400	4	Filament
		DIMENSIONS	
		See K1001/AI/D1	
Max.mean D.C. rectified current (mA)	125	Dimension	Min. Max
Max.peak anode current (mA)	550	A mm	145
Max.reservoir condenser (uF)	4	B mm	57
Min.limiting resistance per anode introduced externally (ohms)	150		
(Ratings apply to condenser input filter and 50c.p.s. supply			

To be performed in addition to those applicable in K1001

	Test conditions		Test	Limits		No: tested
				Min.	Max.	
	Vf	Va				
a	4.0 A.C. or D.C.		If (A)	-	3.5	100% or S
b	4.0 A.C. or D.C.	60 D.C. Max	Ia (mA) (Note 1)	220	-	100%
c	4.0 A.C.	Input voltage 850-0-850 V. R.M.S. Frequency 50 c.p.s. D.C. Load 125 mA (nominal) Reservoir Condenser 4 uF Effective resistance per anode introduced externally 150 ohms	Load Test Switch anode and filament together from cold - run 2 minutes - reject for softness or persistent flash-over.			100%

NOTES

- 1 Test to be applied to each anode.