VALVE ELECTRONIC (1A3) V 753

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

Specification MOS/CV753/Issue 3	SECURITY	
	Specification	collection and transfer and the second and the seco
To be read in conjunction with K1001,	Restricted	Unclassified
ignoring clauses:- 5.2 and 5.3		

→ indicates a change						
TYPE OF VALVE:- Diode, U.H.F. CATHODE:- Indirectly heated ENVELOPE:- Glass-unmetallised PROTOTYPE:- 1A3			MARKING See K1001/4 Additional marking:- 1A3			
RATING		Note		BASE B7G.		
Heater voltage (V)	1.4		Pin	Ele	otrode	
Heater current (mA)	150		1	Hes	ter	Territorio de la graditativa de la compositorio de la compositorio de la compositorio de la compositorio de la
Max. peak inverse voltage	365		2	Anode		
Max. peak plate current (mA)	5.0		3	Cathode		
D.C. output current (mA)	0.55		4	Not	connect	ed
Max. H.C. potential	100		5	Int	t.connect	ion
Max. anode voltage (RMS)	130			(1	o not us	e)
CAPACITANCES (pF)	-		6	And	ode	
The state of the s	00		7	Heater		
Cac Cah	0.6		DIMENSIONS			
Cho	1.05		See K1001/AI/D4			
			Dimension Min. M		Max.	
			A	mm	-	54

TESTS

To be performed in addition to those applicable in K1001

H.P. L.P. 3 2,6 1 9 T 2,6 1.5,7 3 1.5,7 2	inks to E,4,5,7,8,,10,TC1, C2,4,8,9, 0,TC1,TC2	(i) Ca	nces (pF)	Min.	0.85	No. tested
Links to Links to L.P. 3 2,6 1 2,6 1 2,6 7 Vh Va b 1.1 100 volts D.C. between heater with cathode po	E,4,5,7,8,,10,TC1,,10C2,4,8,9,0,TC1,TC2	(i) Cs	ac	0.35	0.85	6 per
Links to Links to L.P. 3 2,6 1 2,6 1 2,6 7 Vh Va b 1.1 100 volts D.C. between heater with cathode po	E,4,5,7,8,,10,TC1,,10C2,4,8,9,0,TC1,TC2	(i) Cs	ac	0.85	1.25	per
H.P. L.P. 3 2,6 1 9 T 2,6 1,5,7 3 1,5,7 2 1 Vh Va b 1.1 100 volts D.C. between heater with cathode po	E,4,5,7,8,,10,TC1,,10C2,4,8,9,0,TC1,TC2	(ii) Ca	ah	0.85	1.25	per
3 2,6 1 9 T 2,6 1,5,7 3 1,5,7 2 1 Vh Va b 1.1 100 volts D.C. between heater with cathode po	,4,5,7,8, ,10,TC1, C2 ,4,8,9, 0,TC1,TC2	(ii) Ca	ah	0.85	1.25	per
2,6 1,5,7 3 1,5,7 2 Vh Va b 1.1 100 volts D.C. between heater with cathode po	,10,TC ₁ , C ₂ ,4,8,9, 0,TC ₁ ,TC ₂ ,4,6,8,9,	(ii) Ca	ah	0.85	1.25	per
Vh Va b 1.1 100 volts D.C. between heater with cathode po	0,TC1,TC2 ,4,6,8,9,					-
b 1.1 100 volts D.C. between heater with cathode po		(iii) Ch	ha	0 1:	0.0	, 1
b 1.1 100 volts D.C. between heater with cathode po		L		0.4	0.9	week
between heater with cathode po						
external resist	and cathod sitive to 000 ohms	Heater-ca sinsulation current	on leakage	0	20	1% (20)
c 1.4 -		If	(mA)	135	165	100%
d 1.1 -		If (Note	1) (mA)	121	149	100%
е		Resonant (Note		50	00	T.A.
f 1.1 -		Operation Output co (Note	mrent (mA)	0.36	-	100%

NOTES

- 1. This test is an alternative to test c. Both tests need not be performed.
- 2. This test may be made with the cold valve in a parallel line circuit. The circuit consists of two rods each 0.125" dia. and spaced with their centres 0.345" apart. A shorting bar 0.125" x 0.5" x 0.875" slides on the rods. Holes 38/1000" dia. are drilled and slotted at one end of each rod to make a sliding contact over pins 3 and 6 on the valve base. The valve is inserted in the rods so that the base is 0.013" from the end of the rods. The line is loosely coupled to a 500 Mc/s oscillator and the shorting bar is adjusted until resonance is indicated by a dip in the oscillator grid current or by a wavemeter. The distance between the base of the valve and the resonant position of the shorting bar shall not be less than 7 cms.
- 3. The valve is tested in a half wave rectifier circuit with 50 volts RMS input, 0.1 MR load and 2 uF reservoir condenser.

DATA SHEET

Valve Electronic Type CV 753

TYPICAL OPERATING CONDITIONS

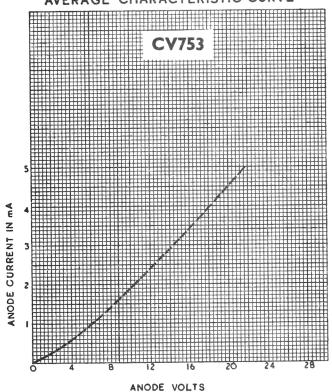
As rectifier at 50 c.p.s. - with Condenser Input Filter

Anode Supply Voltage (R.M.S.)	117	Volts
D.C. Output current	0.5	mA
Input Condenser	2.0	μF
Min. effective circuit impedance	0	Ohms

Note

The resonant frequency of this valve is approximately 1,000 mc/s.

AVERAGE CHARACTERISTIC CURVE



Z.4104.R.

CV 753/a.