

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

Specification MOS/CV574/Issue 2 Dated:- 12.1.48 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 full wave rectifier		<u>MARKING</u> See K1001/4 Additional marking:- 6X5GT		
<u>CATHODE:-</u> Indirectly heated		<u>BASE</u> IO		
<u>ENVELOPE:-</u> Glass, unmetallised				
<u>PROTOTYPE:-</u> 6X5GT				
<u>RATING</u>		Note	Pin	Electrode
Heater voltage (V)	6.3		1	Not connected
Nom. Heater current (A)	0.6	2	Heater	
Max. applied RMS Voltage (V)	325	3	Anode 1	
Max. working peak inverse voltage (V)	900	4	Pin omitted	
Max. no load peak inverse voltage (V)	1100	5	Anode 2	
Max. mean D.C. rectified current (mA)	70	6	Pin omitted	
Max. peak anode current (mA)	210	7	Heater	
Max. reservoir condenser (μF)	16	8	Cathode	
min. limiting resistance per anode (ohms)	150	<u>DIMENSIONS</u> See K1001/AI/D1		
Max. D.C. Heater-cathode potential (V)	450	Dimension	Min.	Max.
(Ratings apply to condenser input filter and 50 c/s supply)		A mm	-	84.3
		B mm	-	33.5

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. tested
				Min.	Max.	
a	Vh 250 volts D.C. applied between heater and cathode with cathode positive with respect to heater	Va	heater cathode insulation leakage current ( $\mu$ A)	-	250	100%
b	6.3 v A.C. or D.C.	-	Ih	-	0.66	100% or S
c	6.3 v A.C. or D.C.	30 D.C. max.	Ia (mA) (Note 1)	80	-	100%
d	6.3 v A.C.	Input voltage 325-0-325 RMS., Frequency 50c/s, DC load 70 mA Reservoir condenser 4 $\mu$ F Effective resistance per anode introduced externally 150 $\Omega$	<u>Load Test</u> Output voltage Run 1 minute - reject for softness or persistent flashover.	350	-	5% (20)

NOTES

1. Test to be applied to each anode.