

Specification: MOS/CV1893/Issue 4.	<u>SECURITY</u>	
Dated: 19.6.46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K1001.	Restricted	Restricted

—→ indicates a change

<u>TYPE OF VALVE:-</u> Double diode pentode <u>CATHODE:-</u> Indirectly heated <u>ENVELOPE:-</u> Glass-unmetallised <u>PROTOTYPE:-</u> 6B8G				<u>MARKING</u> See K1001/4. Additional marking: 6B8G	
<u>RATING</u>			Note	<u>BASE</u> See K1001/A10/D2 I O 11 Dimension (if applies)	
Heater voltage (V)	6.3			Pin	Electrode
Heater current (A)	0.3			1	No connection
Max. anode voltage (V)	300			2	Heater
Max. screen voltage (V)	125			3	Anode
Max. anode dissipation (W)	2.25			4	Diode 2
Max. screen dissipation (W)	0.3			5	Diode 1
Anode current (mA)	9.0	A		6	Screen grid
Mutual conductance (mA/V)	1.1	A		7	Heater
				8	Cathode of suppressor grid
<u>CAPACITANCES (pF)</u>				T.C.	Control grid.
Cag (max.)	0.01			<u>TOP CAP</u> See K1001/AI/D5.2.	
Cae	9.5				
Cge	3.6				
<u>NOTES</u> A. Measured at $V_a = 250$. $V_{g2} = 125$. $V_{g1} = -3$.				<u>DIMENSIONS</u> See K1001/AI/D1.	
				Dimension	Min. Max.
				A mm	105 114
				B mm	- 40

TESTS

To be performed in addition to those applicable in K1001.

	Test conditions					Test	Limits		No. tested
							Min.	Max.	
a	See K1001/AIII.					<u>Capacitances (pF)</u>			
	Links to H.P.	Links to L.P.	Links to E.						
	3	T.C.1	2,4,5,6, 7,8,9,10, TC2.		(i) Cag	-	0.01		1%
	3	2,4,5,6, 7,8.	TC1, TC2, 9,10.		(ii) Cae	6.7	12.3		(20)
	TC1	2,4,5,6, 7,8.	3,9,10, TC2.		(iii) Cge	2.9	4.3		
	Vh	Va	Vg2	Vg1	Vd				
b	6.3	-	-	-	-	Ih (A)	0.27	0.33	100% or S.
c	6.3	250	125	-3	-	Ia (mA)	6.3	11.7	100%
d	6.3	250	125	-3	-	Ig2 (mA)	-	3.2	100%
e	6.3	250	125	-3	-	gm (mA/V)	0.8	1.4	100%
f	6.3	250	125	-3	-	Rev. Ig (uA)	-	1.0	100%
g	6.3	250	125	-15	-	Ia (mA)	-	0.75	10% (50)
h	6.3	-	-	-	+10	Id (mA) See Note 1.	0.8	-	100%

NOTES

1. This test to be applied to both diodes.