

Specification MDS/CV1306/Issue 7 Dated 2.1.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

→ indicates a change

<u>TYPE OF VALVE:-</u> Double-diode triode		<u>MARKING</u>	
<u>CATHODE:-</u> Directly Heated		See K1001/4	
<u>ENVELOPE:-</u> Glass-metallised			
<u>PROTOTYPE:-</u> HL 23DD.			
<u>RATING</u>		<u>BASE</u> MO	
	Note		
Filament voltage (V)	2.0	Pin	Electrode
Filament current (A)	0.05	1	Filament -ve
Max. anode volts (V)	150	2	No connection
Mutual conductance (mA/V)	1.2	3	Anode
Amplification factor	25	4	No connection
Anode impedance (ohms)	21000	5	Diode 2
<u>CAPACITANCES (pF)</u>		6	Metallising
Cag	3.5	7	Diode 1
Ca - all	10.0	8	Filament +ve
Cg - all	5.5	T.C.	Control Grid
<u>NOTES</u>		<u>TOP CAP</u>	
A. Measured at $V_a = 120$ $V_{g1} = -1.5$		See K1001/AI/D5.1	
		<u>DIMENSIONS</u>	
		See K1001/AI/D1	
		<u>Dimension</u>	<u>Min/</u> <u>Max.</u>
		A mm	88 98
		B mm	- 33

To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. Tested			
					Min	Max				
a	See K1001/ATII.			Capacitances (pF)			6 per week.			
	Links to H.P.	Links to L.P.	Links to E.							
	TC1	3	1,2,4,5, 6,7,8,9, 10,TC2.					(i) Cag	2.5	4.5
	3	1,5,6,7, 8,TC1.	2,4,9,10, TC2.					(ii) Ca-all	8.5	11.5
	TC1	1,3,5,6, 7,8.	2,4,9,10, TC2.	(iii) Cg-all	4.0	7.0				
b	Vf	Va	Vg	If (A)	0.047	0.057	100% or S			
	2.0	-	-							
c	2.0	120	-2.	Ia (mA)	0.6	1.8	100%			
d	2.0	120	-2 to 0	Ia rise (mA)	1.9	2.8	100%			
e	2.0	120	-1.5	μ	20	30	5% (20)			
f	2.0	120	-2	Rev. Ig (μ A)	-	0.5	100%			
g	<p><u>Double Diode Section.</u> With Vf = 2.0, a voltage will be applied to the anode of Diode 1 such that the diode current is less than 10 μA. The voltage will then be increased by 5 volts and the diode current shall be not less than 250 μA. The same test shall be applied to Diode 2.</p>						100%			