

OUTPUT PENTODE

UL41

Output pentode rated for a maximum anode dissipation of 9W, and with 100mA heater for use with d.c./a.c. mains operated equipment.

HEATER This valve is suitable for series operation, d.c. or a.c.

I_h	100	mA
V_h	45	V

CAPACITANCES

C_{a-g1}	<1.0	pF
C_{in}	11.0	pF
C_{out}	8.3	pF

OPERATING CONDITIONS AS SINGLE VALVE CLASS "A" AMPLIFIER

V_a	100	170	200	V
V_{g2}	100	170	200	V
V_{g1}	-5.7	-10.4	-14.2	V
I_a	29	53	45	mA
I_{g2}	5.5	10	8.5	mA
g_m	8.0	9.5	8.2	mA/V
r_a	18	20	24	k Ω
μ_{g1-g2}	10	10	10	
R_a	3.0	3.0	4.3	k Ω
P_{out}	1.35	4.2	4.2	W
$V_{in(r.m.s.)}$	3.75	6.0	6.3	V
D_{tot}	10	10	10	%
$V_{in(r.m.s.)}$ ($P_{out}=50mW$)	550	500	540	mV

OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

V_a	100	170	200	V
V_{g2}	100	170	200	V
$I_{a(o)}$	2×24	2×44	2×45	mA
I_a (max. sig.)	2×27	2×49	2×53	mA
$I_{g2(o)}$	2×4.6	2×8.8	2×9	mA
I_{g2} (max. sig.)	2×6.8	2×16.5	2×19	mA
R_k	100	100	130	Ω
R_{a-a}	4.0	4.0	4.0	k Ω
P_{out}	2.2	9.0	12.5	W
$V_{in(g-g)}$ (r.m.s.)	9.2	18.6	24.5	V
D_{tot}	3.5	4.0	4.0	%

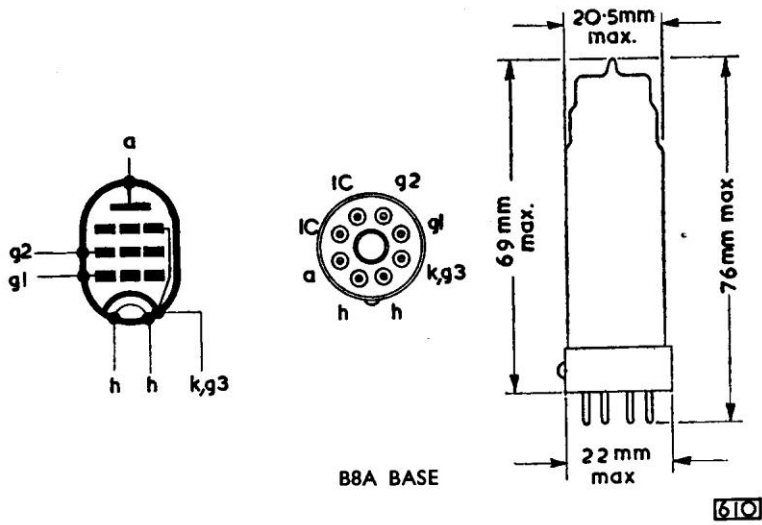
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LIMITING VALUES

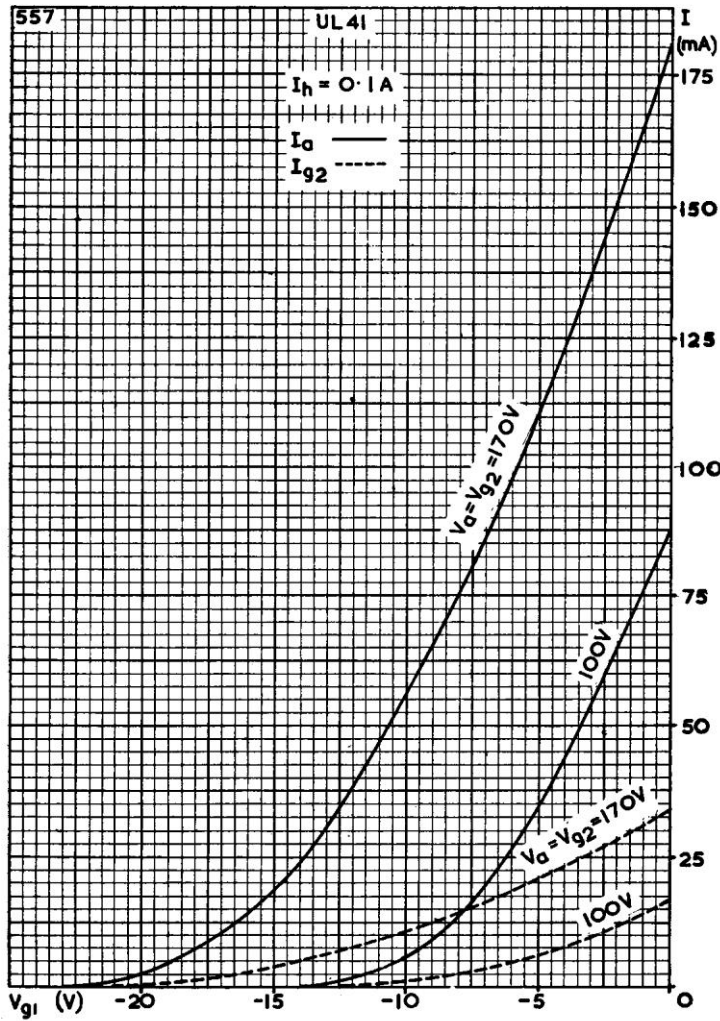
$V_{g1(b)}$ max.	550	V
V_a max.	250	V
p_a max.	9	W
$V_{g2(b)}$ max.	550	V
V_{g2} max.	250	V
P_{g2} max. (zero signal)	1.75	W
P_{g2} max. (max. signal)	4.0	W
I_k max.	75	mA
V_{g1} max. ($I_{g1} = +0.3 \mu A$)	-1.3	V
R_{g1-k} max.	1.0	M Ω
R_{h-k} max.	20	k Ω
V_{h-k} max.	150	V



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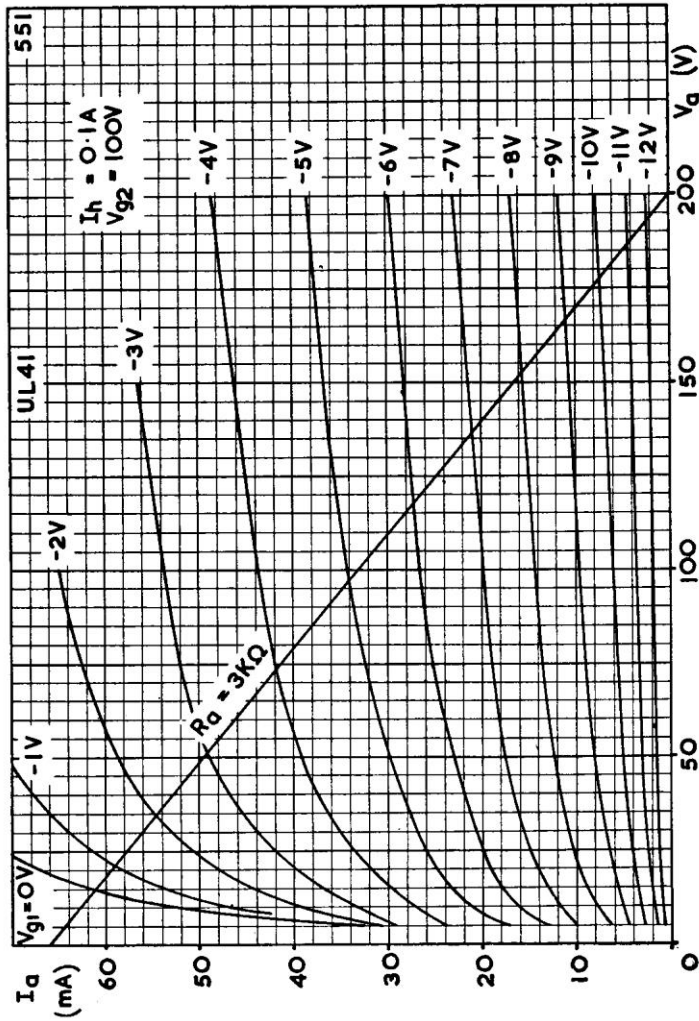


ANODE AND SCREEN-GRID CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE

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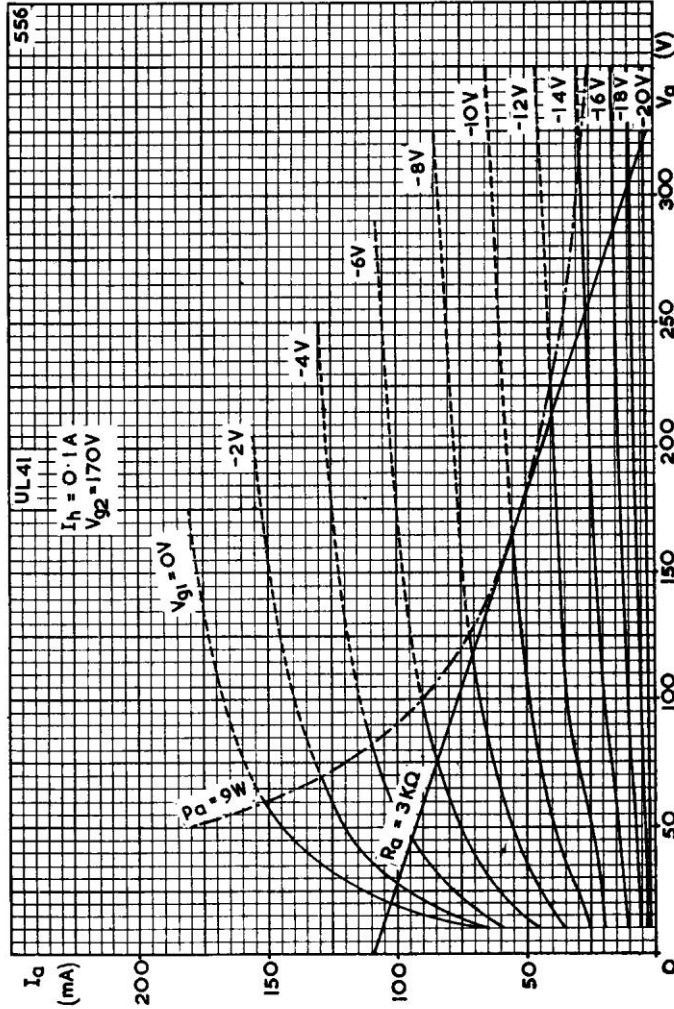


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE FOR SCREEN-GRID VOLTAGE OF 100V

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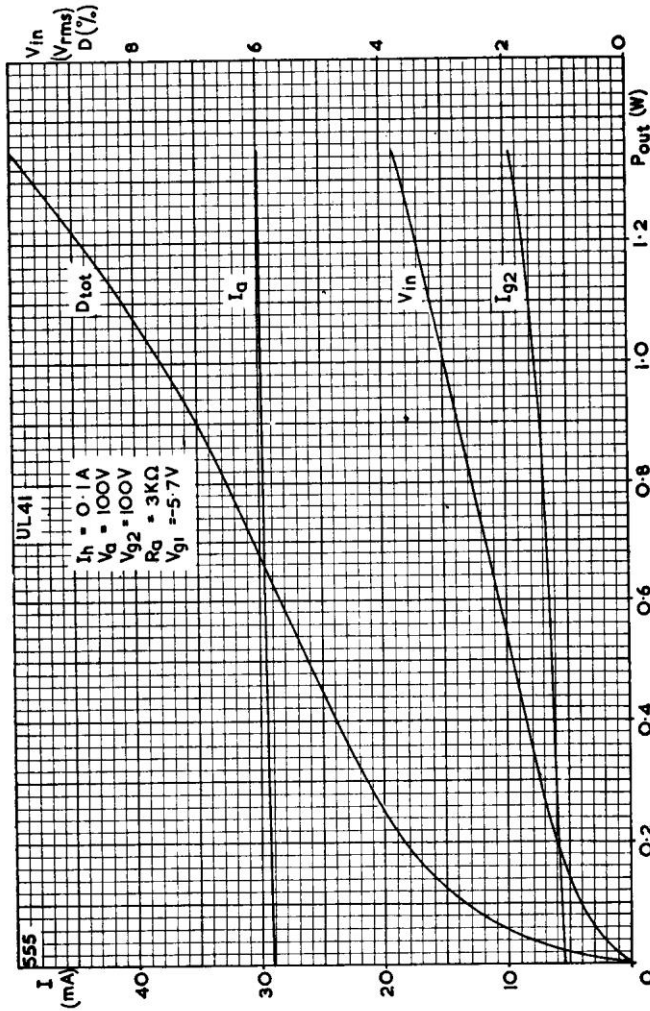


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE FOR SCREEN-GRID VOLTAGE OF 170V

UL41

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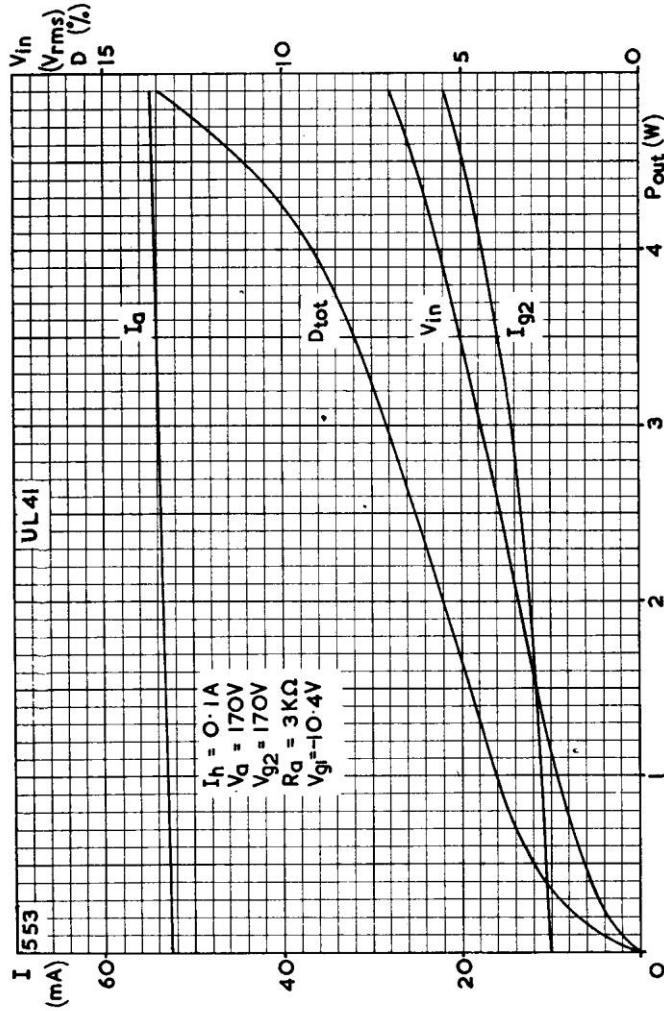


DISTORTION AND INPUT VOLTAGE PLOTTED AGAINST OUTPUT POWER FOR ANODE AND SCREEN-GRID VOLTAGE OF 100V

OUTPUT PENTODE

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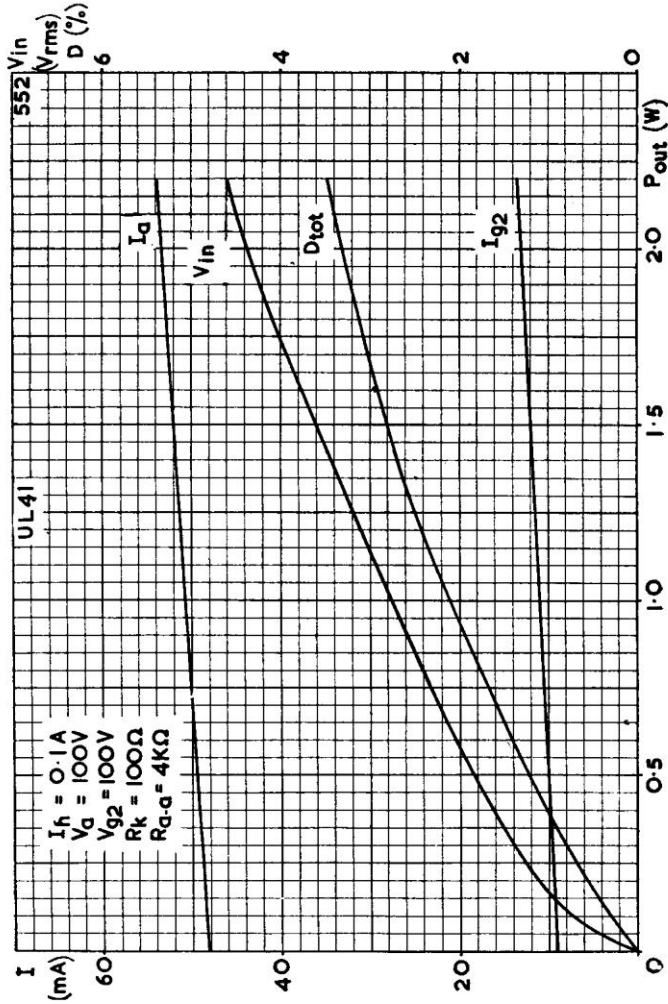


DISTORTION AND INPUT VOLTAGE PLOTTED AGAINST OUTPUT POWER FOR ANODE AND SCREEN-GRID VOLTAGE OF 170V

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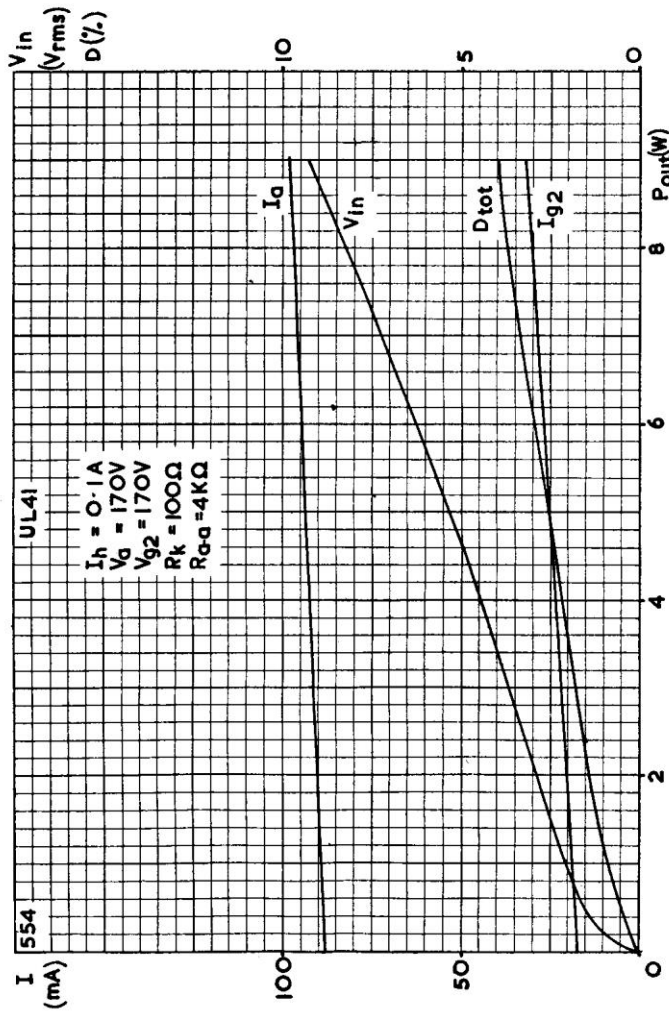


DISTORTION AND INPUT VOLTAGE PLOTTED AGAINST OUTPUT POWER FOR PUSH-PULL OPERATION WITH ANODE AND SCREEN-GRID VOLTAGE OF 100V

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DISTORTION AND INPUT VOLTAGE PLOTTED AGAINST OUTPUT POWER FOR PUSH-PULL OPERATION AT ANODE AND SCREEN-GRID VOLTAGE OF 170V