

OUTPUT PENTODE

EL41

Output pentode rated for 9W anode dissipation, primarily intended for use in A.C. mains operated equipment.

HEATER

V_h	6.3	V
I_h	0.7	A

MOUNTING POSITION

Any

CAPACITANCES

C_{out}	7.8	pF
C_{in}	10.2	pF
C_{a-g1}	<1.0	pF
C_{g1-h}	<0.15	pF

CHARACTERISTICS

V_a	250	V
V_{g2}	250	V
I_a	36	mA
I_{g2}	5.2	mA
V_{g1}	-7	V
g_m	10	mA/V
r_a	40	k Ω
μ_{g1-g2}	22	

OPERATING CONDITIONS AS SINGLE VALVE CLASS "A" AMPLIFIER

Pentode connection

V_a	250	V
V_{g2}	250	V
V_{g1}	-7	V
R_k	170	Ω
I_a	36	mA
I_{g2}	5.2	mA
R_a	7	k Ω
V_{in} (r.m.s.) ($P_{out}=50mW$)	0.32	V
P_{out} ($D_{tot}=10\%$)	4.2	W
V_{in} (r.m.s.) ($D_{tot}=10\%$)	3.7	V
P_{out} ($\eta=50\%$)	4.5	W
V_{in} (r.m.s.) ($P_{out}=4.5W$)	4.0	V
D_{tot} ($P_{out}=4.5W$)	11.5	%

OPERATING CONDITIONS AS SINGLE VALVE CLASS "A" AMPLIFIER

Triode connection (g_2 connected to a)

V_a	250	V
R_k	250	Ω
R_a	3.5	k Ω
I_a	33	mA
P_{out}	1.55	W
V_{in} (r.m.s.)	6	V
D_{tot}	8	%

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OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

Pentode connection

V_a	250	300	V
V_{g2}	250	300	V
$I_{a(o)}$	2×25	2×30	mA
I_a (max. sig.)	2×30	2×36	mA
$I_{g2(o)}$	2×3.5	2×4	mA
I_{g2} (max. sig.)	2×8	2×9.5	mA
R_k	140	140	Ω
R_{a-a}	9	9	k Ω
P_{out}	9	13	W
V_{in} (g-g) (r.m.s.)	14	17	V
D_{tot}	2.5	2.5	%

OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

Triode connection (g_2 connected to a)

V_a	250	300	V
$I_{a(o)}$	2×27.5	2×33	mA
R_k	150	150	Ω
R_{a-a}	10	10	k Ω
P_{out}	2.5	4	W
V_{in} (g-g) (r.m.s.)	5.4	6.7	V
D_{tot}	1	1	%

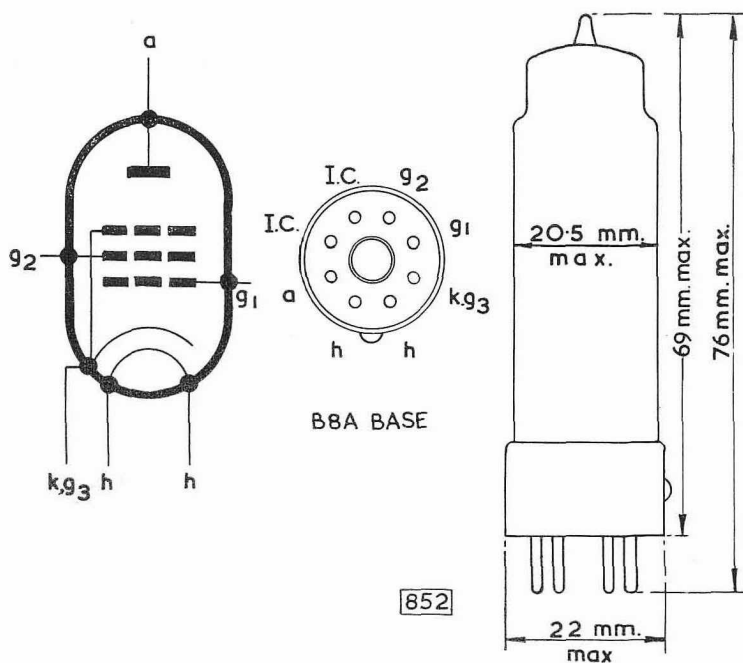
LIMITING VALUES

V_a (b) max.	550	V
V_a max.	300	V
p_a max.	9	W
V_{g2} (b) max.	550	V
V_{g2} max.	300	V
p_{g2} (zero sig.) max.	1.4	W
p_{g2} (max. sig.) max.	3.3	W
I_k max.	55	mA
V_{g1} max. ($I_{g1} = +0.3\mu A$)	-1.3	V
R_{g1-k} max.	1	M Ω
V_{h-k} max.	50	V
R_{h-k} max.	20	k Ω

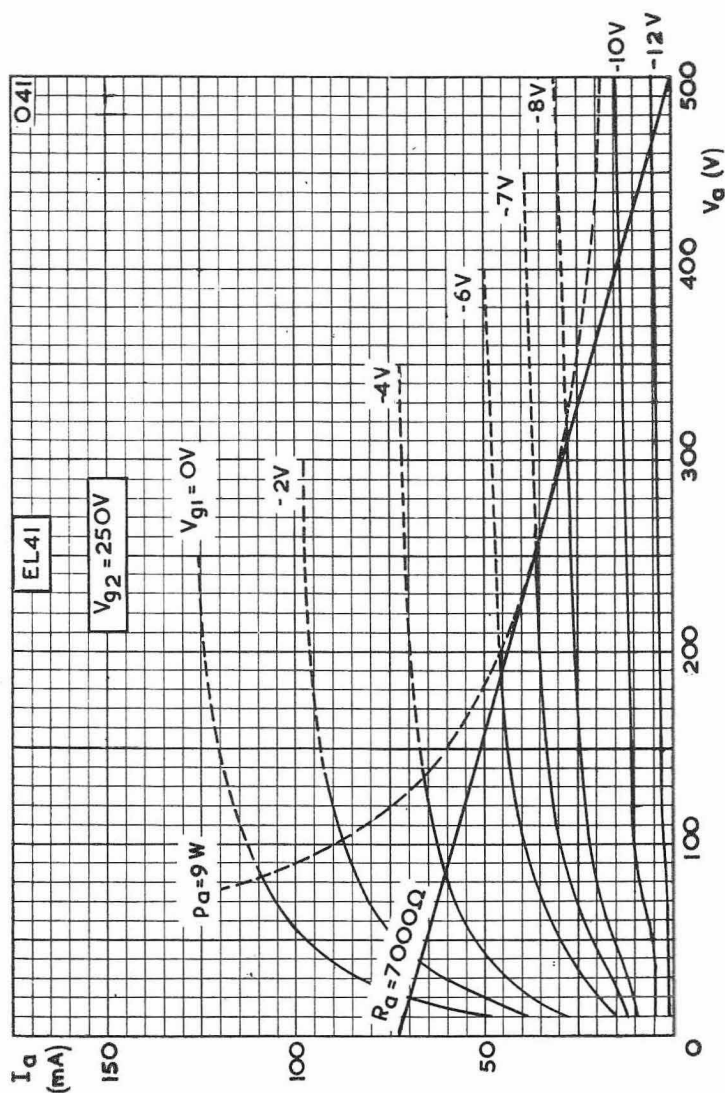
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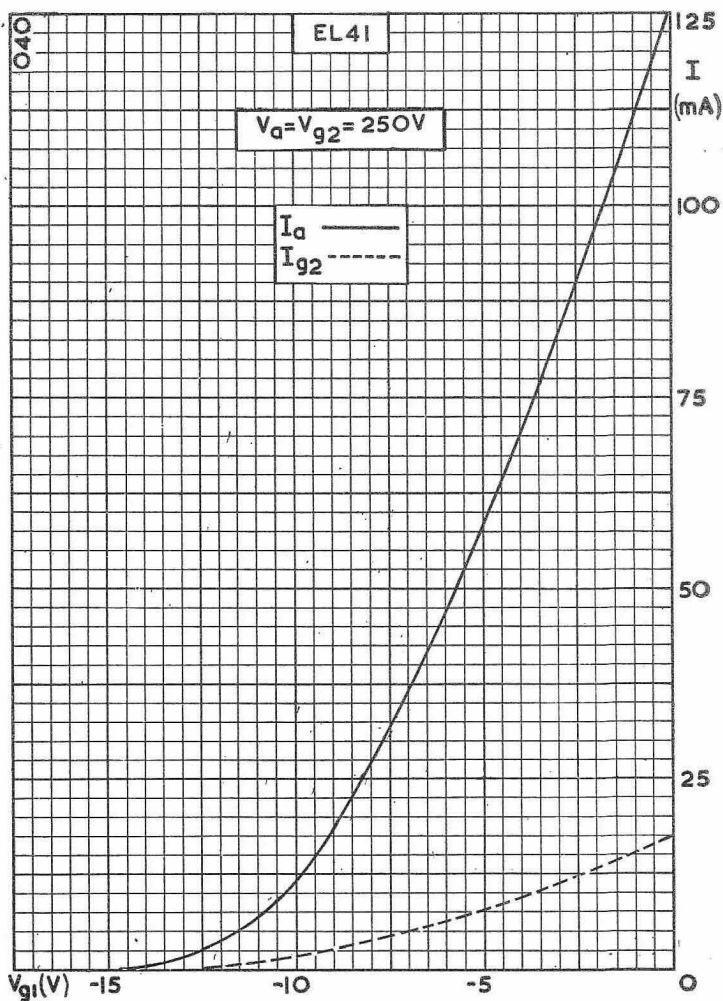


ANODE CURRENT PLOTTED AGAINST ANODE VOLTS

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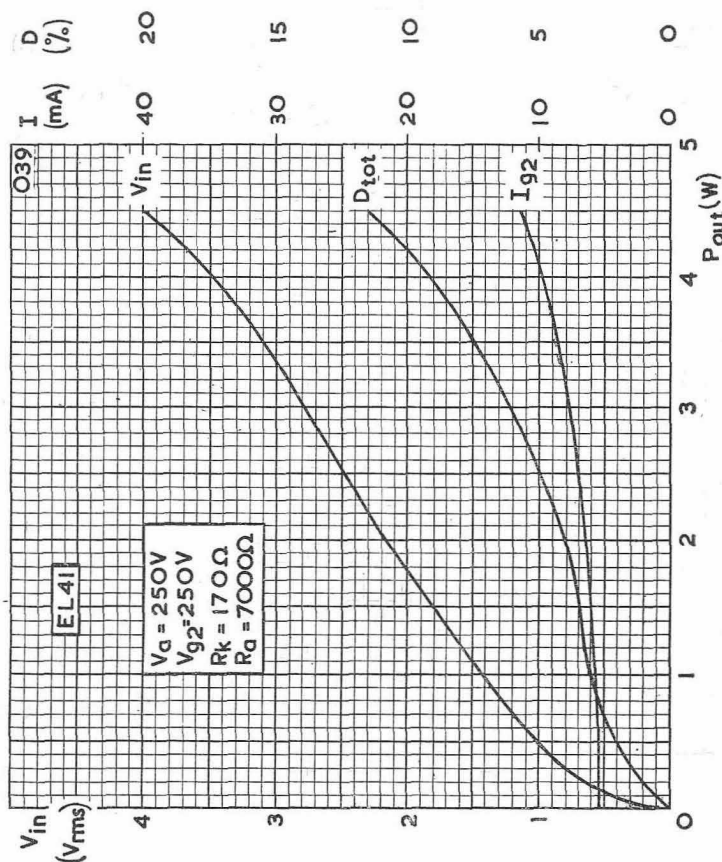


ANODE CURRENT AND SCREEN-GRID CURRENT PLOTTED
AGAINST CONTROL-GRID VOLTS

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DRIVE VOLTAGE, SCREEN-GRID CURRENT AND TOTAL DISTORTION
 PLOTTED AGAINST OUTPUT POWER FOR SINGLE VALVE
 CLASS "A" AMPLIFIER