

SUBMINIATURE R.F. PENTODE

DF60

Subminiature sharp cut-off r.f. pentode
for use in battery-operated equipment.

FILAMENT

Suitable for d.c. operation only.

V_f	1.25	V
I_f	50	mA

MOUNTING POSITION

Any

Note – Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1.5mm from the seal.

CAPACITANCES

C_{a-g1}	< 0.01	pF
C_{in}	3.7	pF
C_{out}	4.6	pF

CHARACTERISTICS

V_a	45	67.5	V
V_{g2}	45	67.5	V
V_{g1}	0	0	V
R_{g1}	5.0	5.0	MΩ
I_a	0.8	1.8	mA
I_{g2}	220	480	μA
g_m	0.82	1.1	mA/V
r_a	1.2	1.0	MΩ
V_{g1} ($g_m = 10 \mu A/V$)	-3.0	-4.0	V
R_{in} ($f = 50 Mc/s$)	-	34.5	kΩ
R_{eq}	-	8.2	kΩ

OPERATING CONDITIONS AS A FREQUENCY CHANGER

V_a	45	67.5	V
V_{g2}	45	67.5	V
R_{g1}	100	100	kΩ
I_a	0.56	1.06	mA
I_{g2}	150	300	μA
$V_{osc(r.m.s.)}$	3.0	4.0	V
I_{g1}	33	40	μA
g_c	270	320	μA/V
g_m (eff)	320	400	μA/V
r_a	1.6	1.46	MΩ



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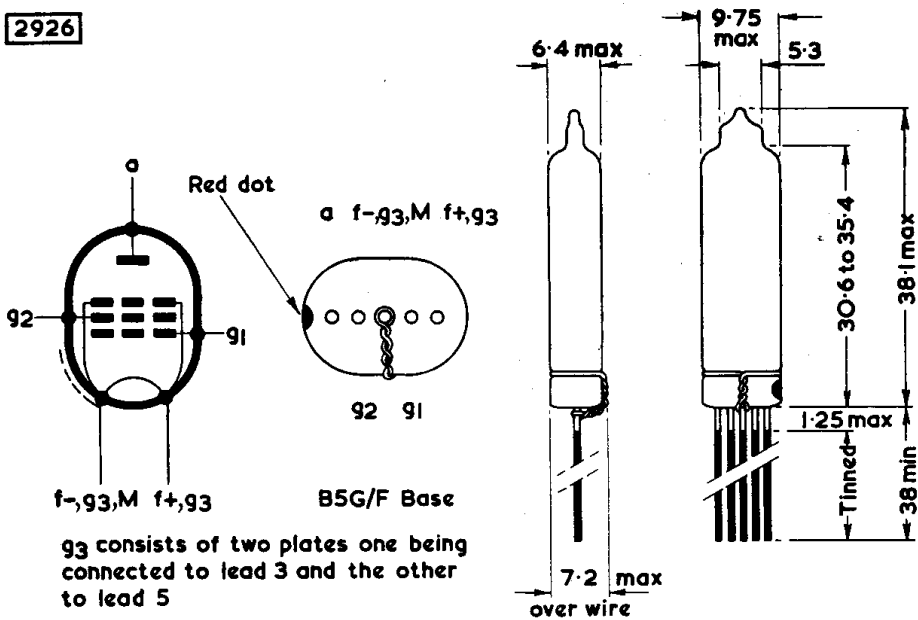
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LIMITING VALUES

V_a max.	90	V
V_{g2} max.	67.5	V
I_k max.	4.0	mA

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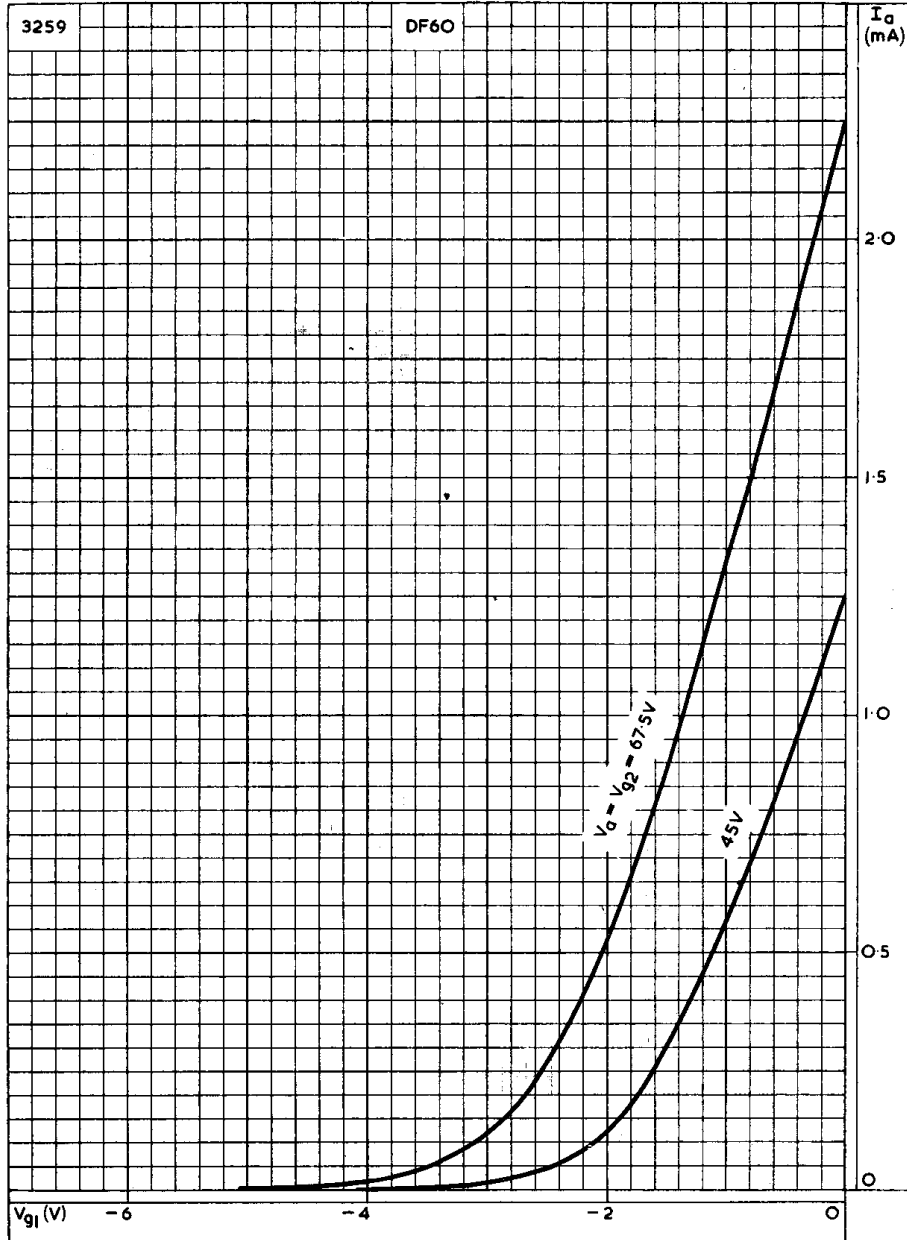


All dimensions in mm

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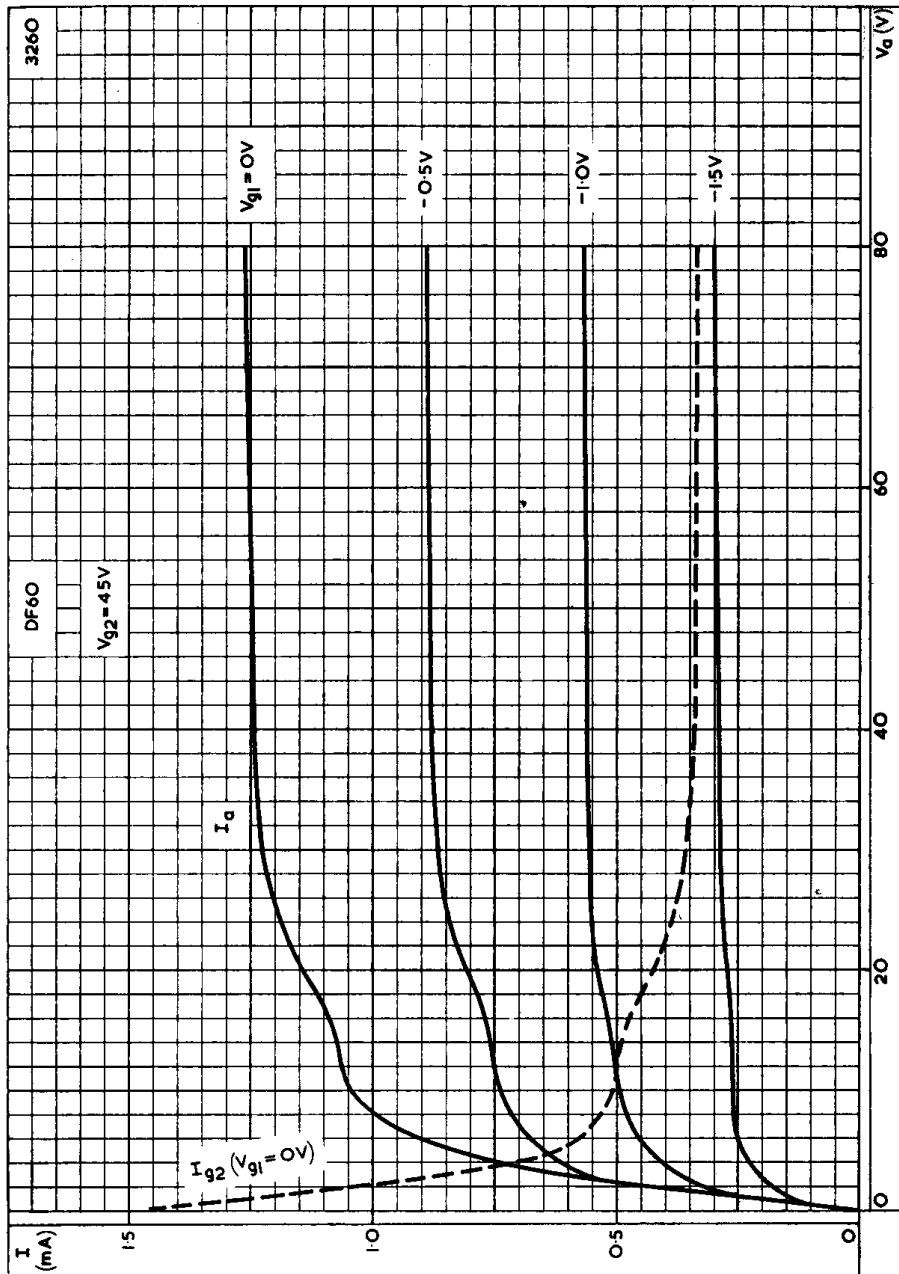


ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE FOR VARIOUS VALUES OF ANODE AND SCREEN-GRID VOLTAGES

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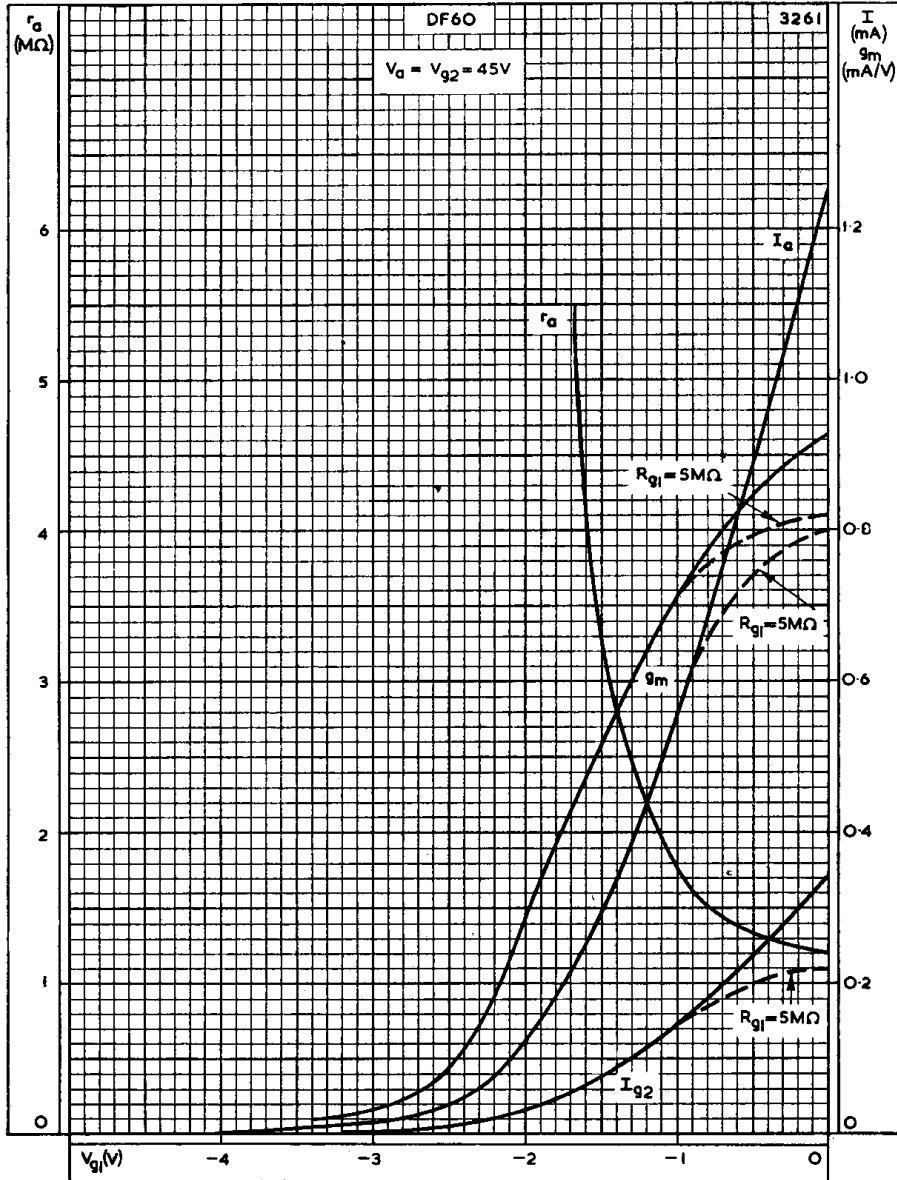


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 45V$

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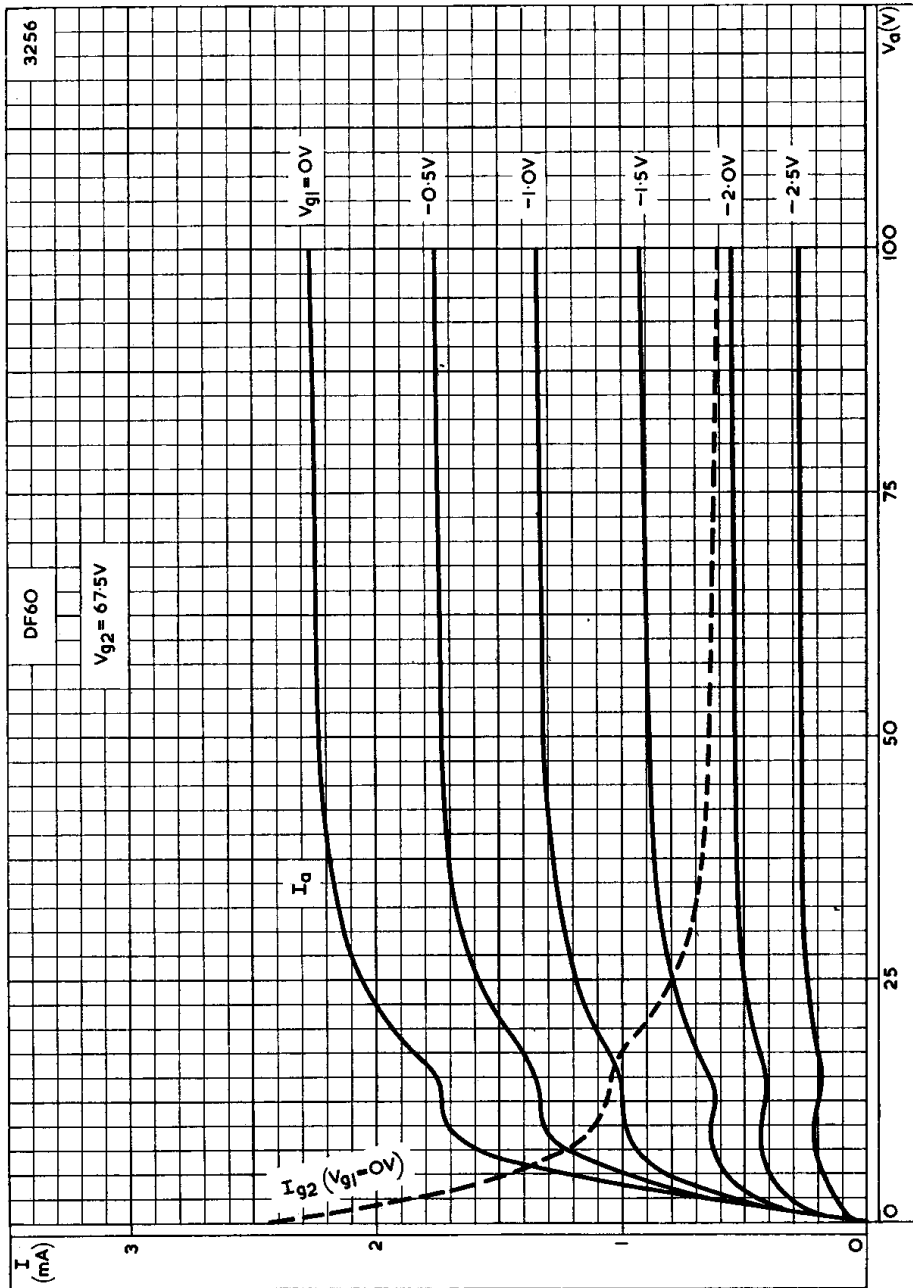


ANODE CURRENT, SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE
AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE
 $V_{g2} = V_{g3} = 45V$

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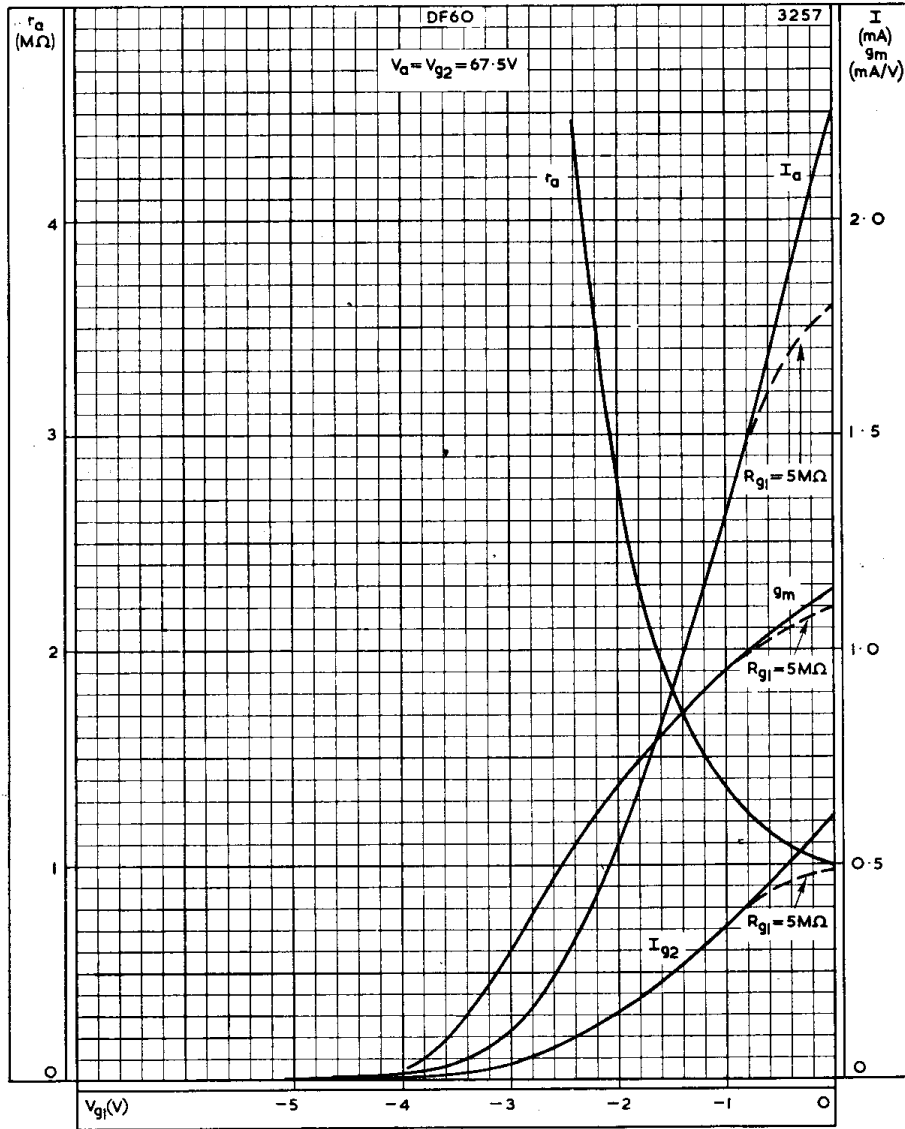


ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 67.5V$

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ANODE CURRENT, SCREEN-GRID CURRENT, MUTUAL CONDUCTANCE
AND ANODE IMPEDANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE

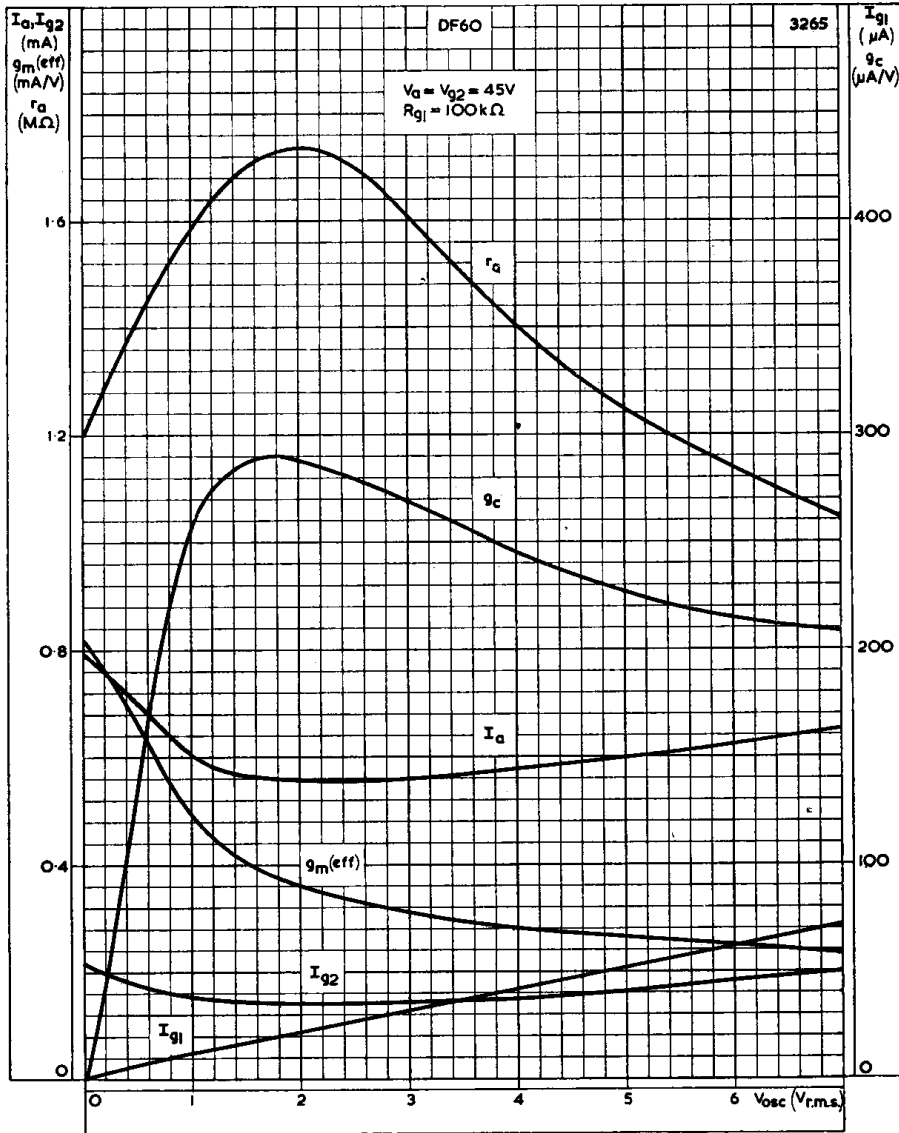
$$V_a = V_{g2} = 67.5V$$



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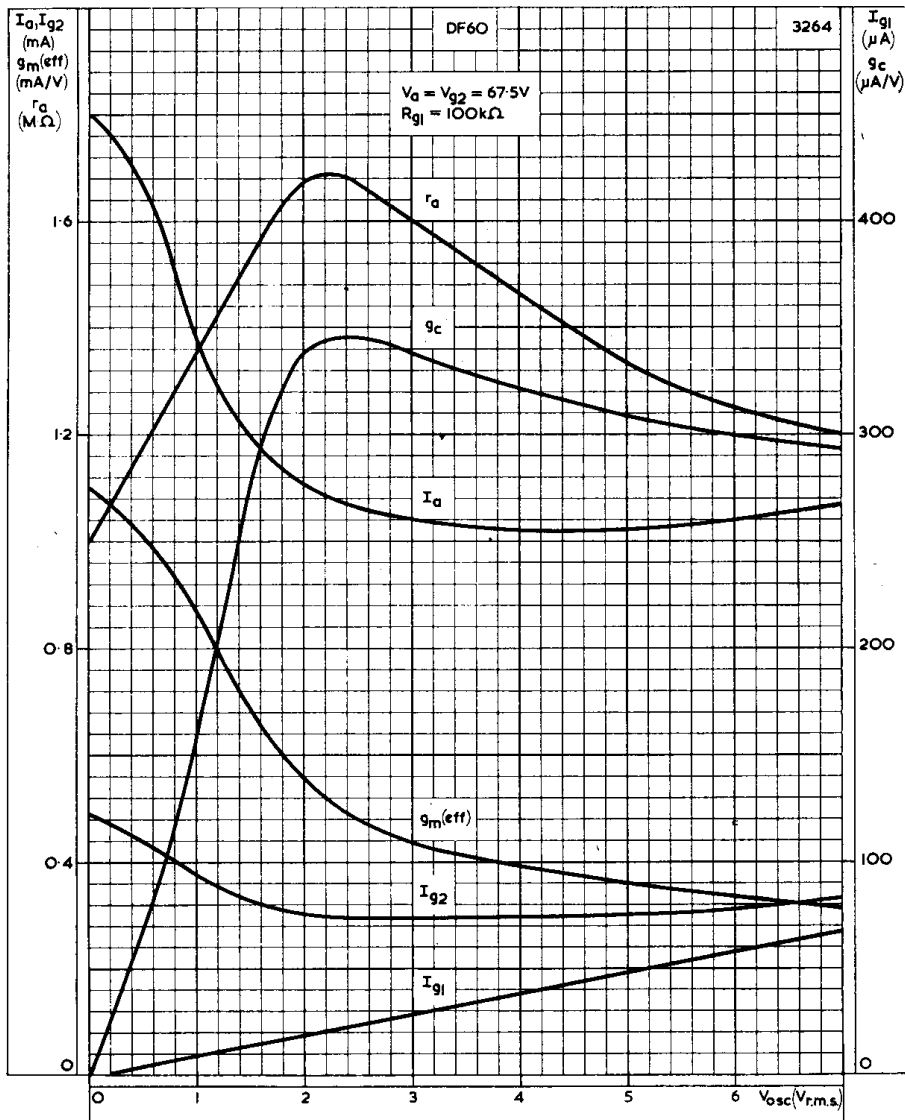
PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g2} = 45V$



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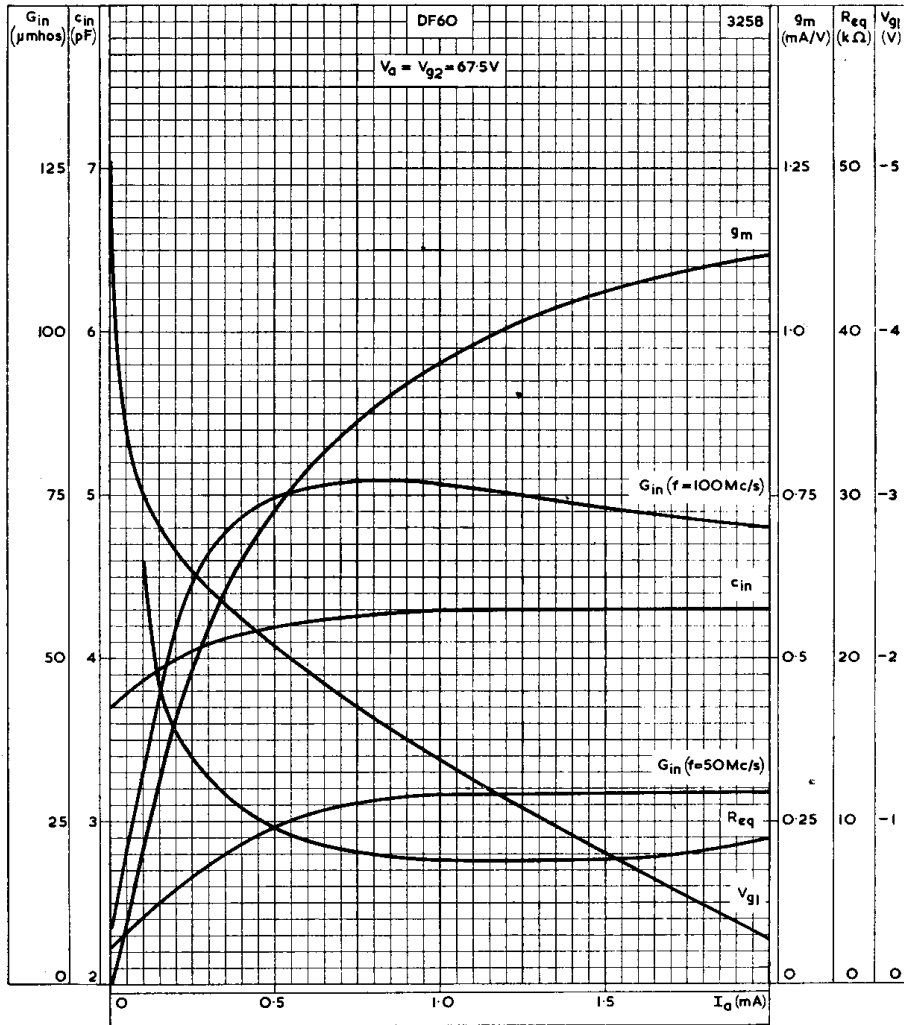
PERFORMANCE AS A FREQUENCY CHANGER. $V_a = V_{g2} = 67.5V$



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INPUT CONDUCTANCE, EQUIVALENT NOISE RESISTANCE, INPUT CAPACITY, CONTROL-GRID VOLTAGE AND MUTUAL CONDUCTANCE PLOTTED AGAINST ANODE CURRENT