ELECTROMETER PENTODE

Pentode suitable for use in high resistance circuits for applications such as pH meters, photocell units and valve voltmeters.

ME1400

HEATER

V_h	4.5±5%	V
I_h	160	mA

MOUNTING POSITION

Any

CAPACITANCES

c_{a-g1}	<20	mpF
c_{in}	5.5	pF
c_{out}	8.5	pF

CHARACTERISTICS

Pentode connected

Measured at V_h = 4.5V, $V_a = V_{g2}$ = 45V and I_a = 80μA

	Min.	*Av.*	*Max.*	
I_h	150	160	170	mA
V_{g1}	–1.6	–2.0	–2.4	V
g_m	160	240	320	μA/V
I_{g2}	—	20	—	μA
I_{g1}	—	-5.0×10^{-12}	-10^{-11}	A
r_a	—	>5.0	—	MΩ
*V_{g1} (crossover)	—	–0.8	–1.3	V

Triode connected (g_2 connected to a, g_3 connected to k)

Measured at V_h = 4.5V, V_a = 45V and I_a = 100μA

	Min.	*Av.*	*Max.*	
I_h	150	160	170	mA
V_{g1}	–1.6	–2.0	–2.4	V
g_m	200	300	400	μA/V
I_{g1}	—	-5.0×10^{-12}	-10^{-11}	A
r_a	—	65	—	kΩ
μ	—	20	—	
*V_{g1} (crossover)	—	–0.8	–1.3	V

*'Crossover' is the point at which the polarity of the grid current is reversed.

LIMITING VALUES

V_a max.	90	V
V_{g2} max.	90	V
I_k max.	1.0	mA
V_{h-k} max.	10	V

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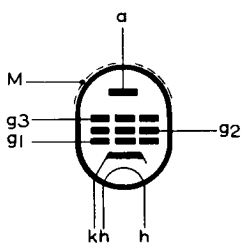
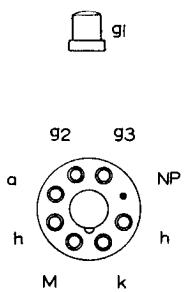
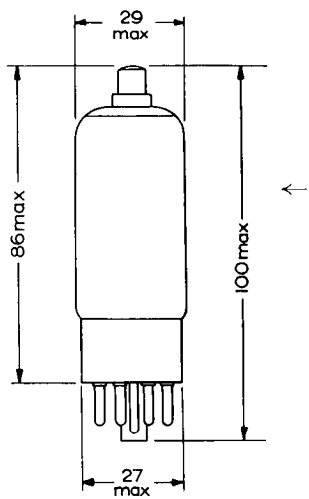


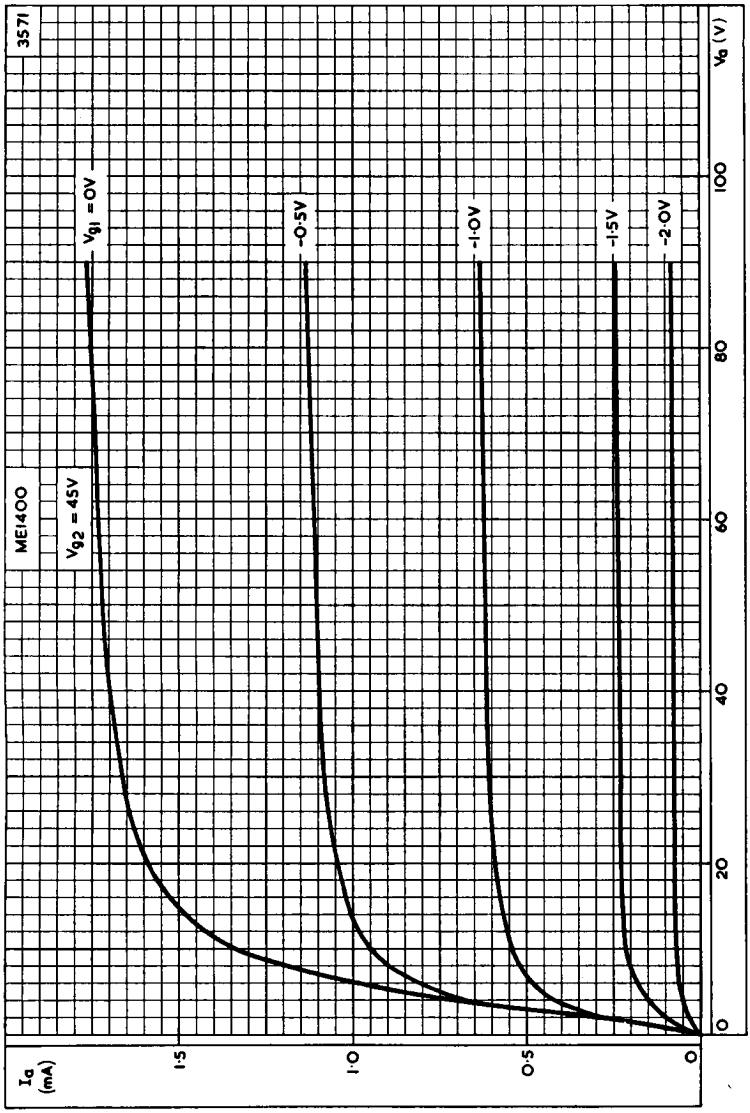


Octal base



All dimensions in mm

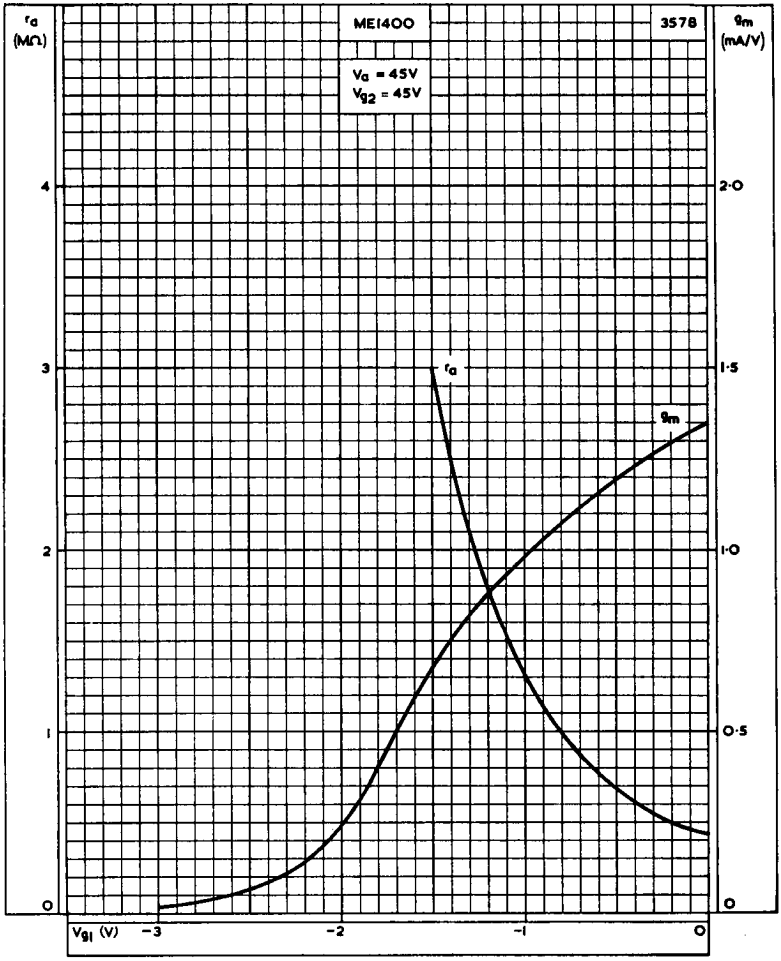
ME1400



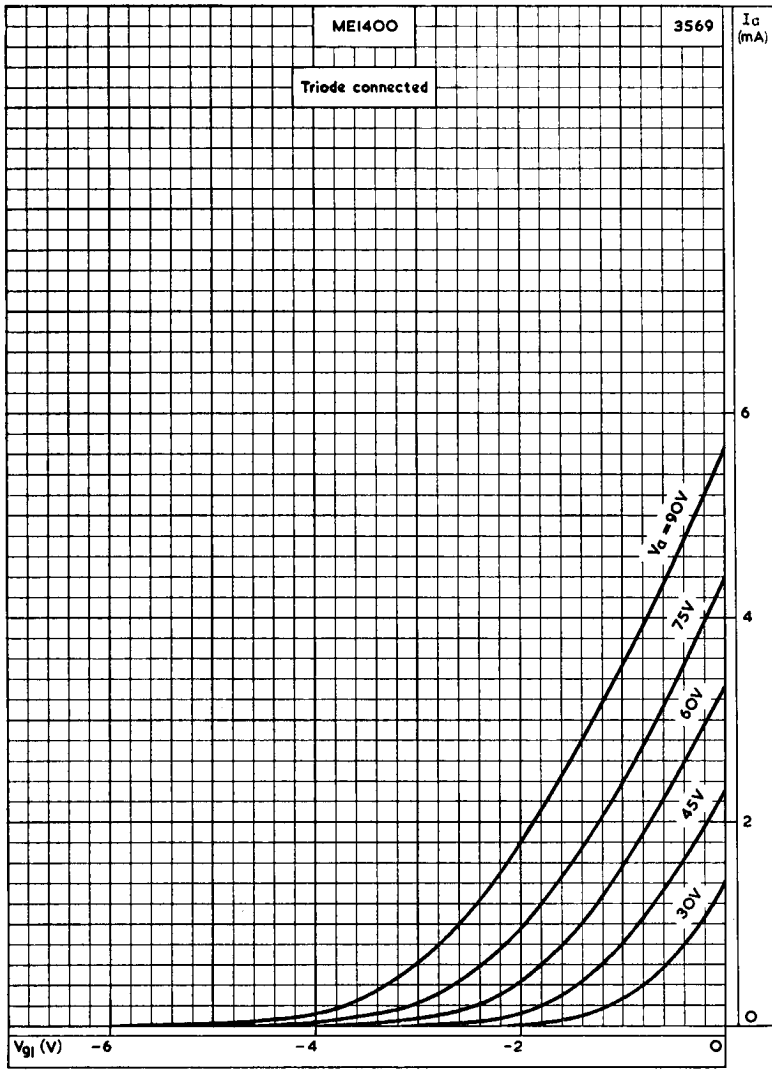
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH CONTROL-GRID VOLTAGE AS PARAMETER. V_{g2} = 45V

ME1400

ELECTROMETER PENTODE



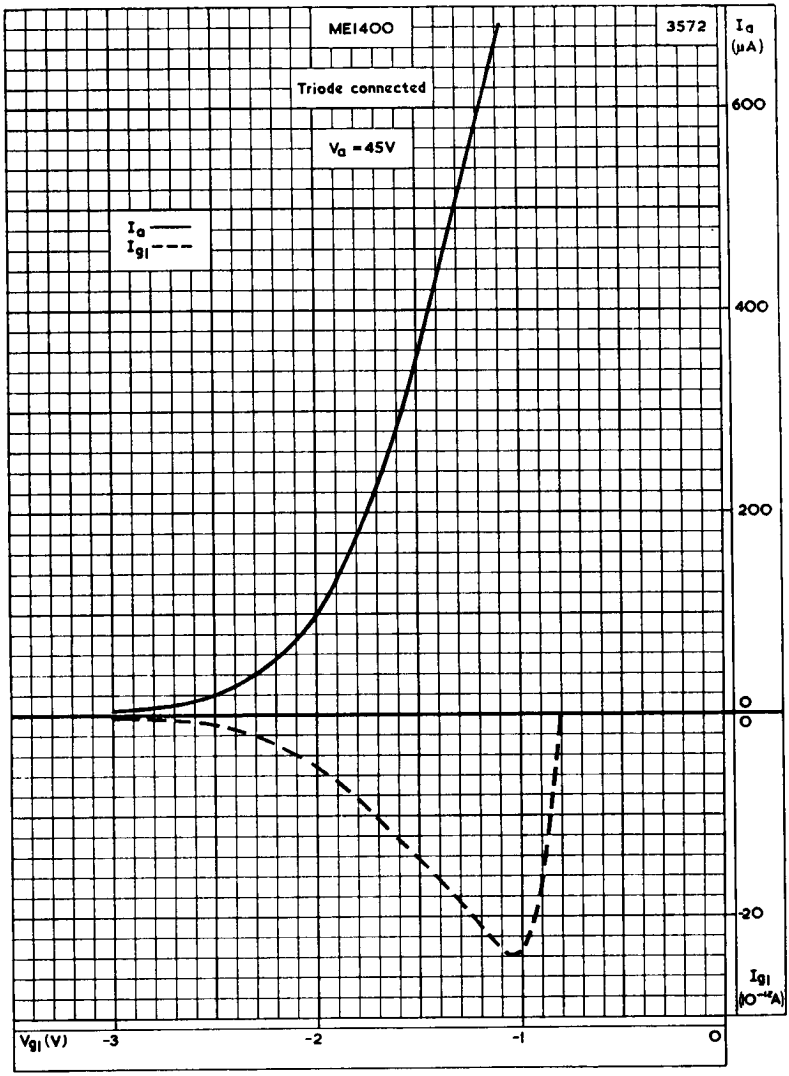
ANODE IMPEDANCE AND MUTUAL CONDUCTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE. $V_a = V_{g2} = 45V$



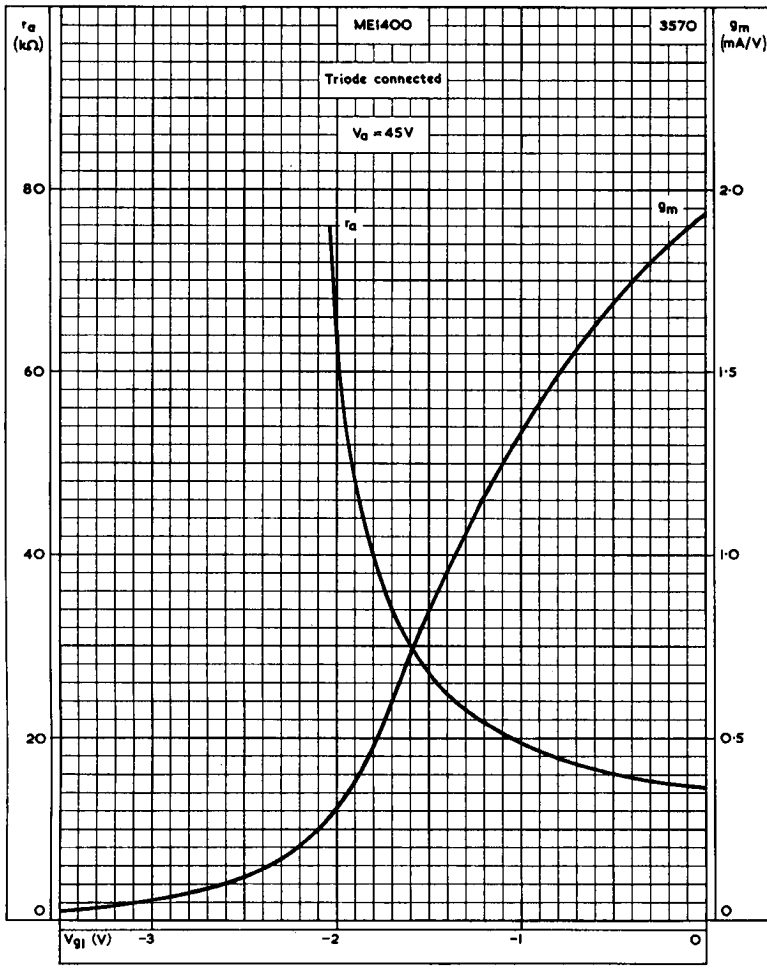
ANODE CURRENT PLOTTED AGAINST CONTROL-GRID VOLTAGE WITH ANODE VOLTAGE AS PARAMETER. TRIODE CONNECTED

ME1400

ELECTROMETER PENTODE



ANODE AND CONTROL-GRID CURRENTS PLOTTED AGAINST CONTROL-GRID VOLTAGE. TRIODE CONNECTED. V_a = 45V



ANODE IMPEDANCE AND MUTUAL CONDUCTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE. TRIODE CONNECTED. V_a = 45V