

ELECTROMETER PENTODE

MEI 400

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

HEATER

V_h	$4.5 \pm 5\%$	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 $I_a = 80\mu A$

	Min.	Av.	Max.	
I_h	150	160	170	mA
V_{g1}	-1.6	-2.0	-2.4	V
g_m	160	240	320	$\mu A/V$
I_{g2}	—	20	—	μA
I_{g1}	—	-5.0×10^{-12}	-10^{-11}	A
r_a	—	> 5.0	—	M Ω
* 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 $I_a = 100\mu A$

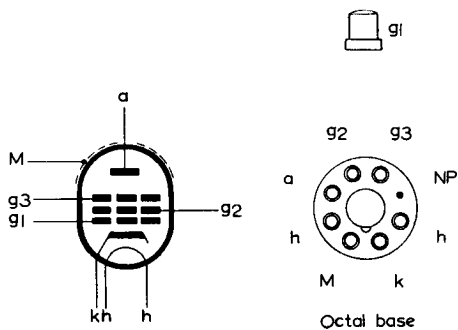
	Min.	Av.	Max.	
I_h	150	160	170	mA
V_{g1}	-1.6	-2.0	-2.4	V
g_m	200	300	400	$\mu A/V$
I_{g1}	—	-5.0×10^{-12}	-10^{-11}	A
r_a	—	65	—	k Ω
μ	—	20	—	
* V_{g1} (crossover)	—	-0.8	-1.3	V

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

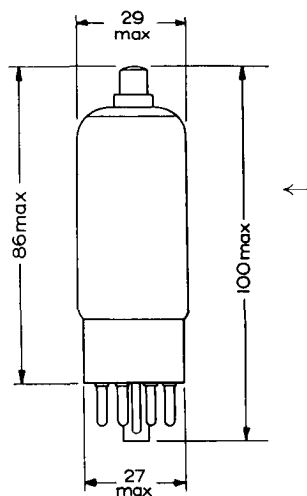
LIMITING VALUES

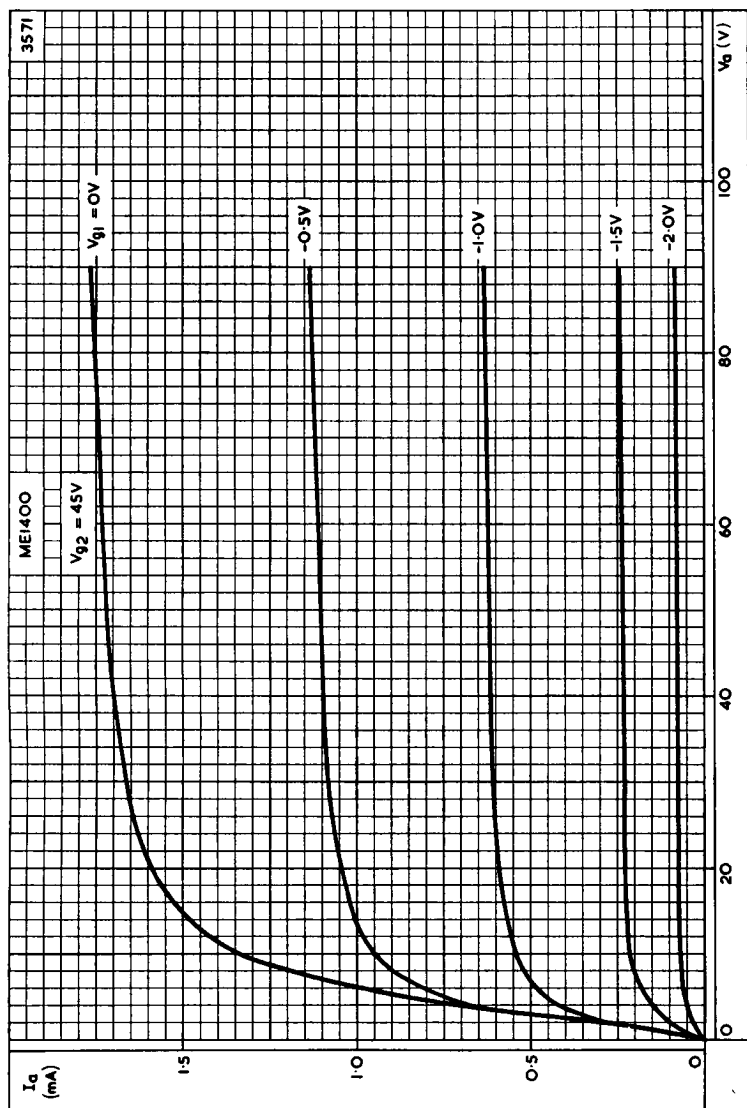
V_a max.	90	V
V_{g2} max.	90	V
I_k max.	1.0	mA
V_{h-k} max.	10	V

6709

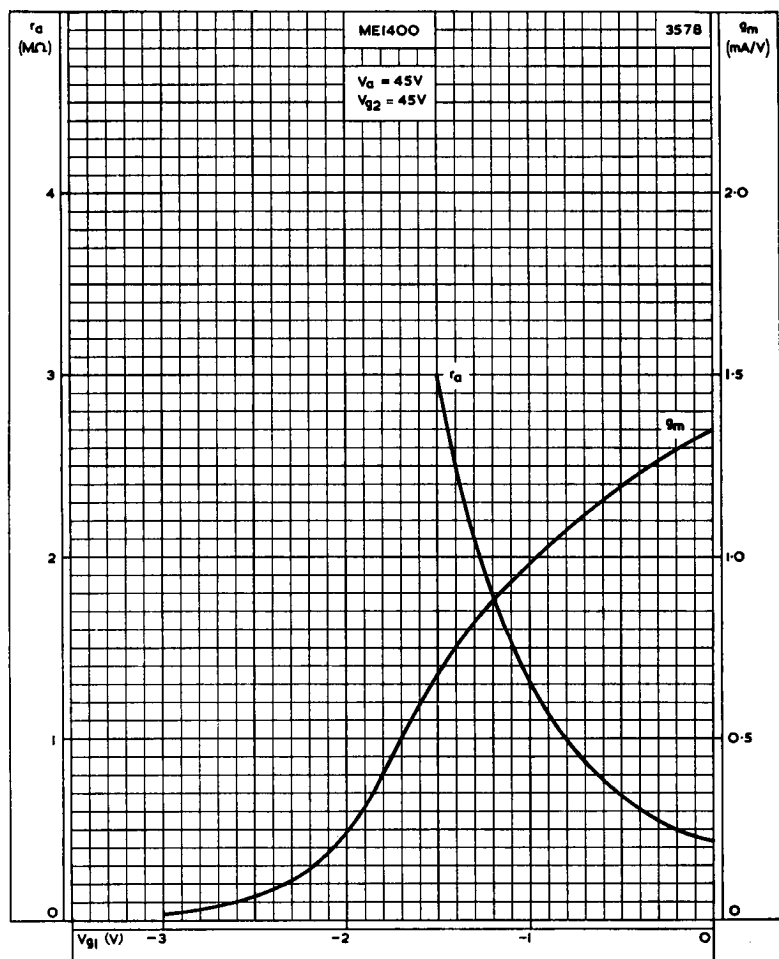


All dimensions in mm

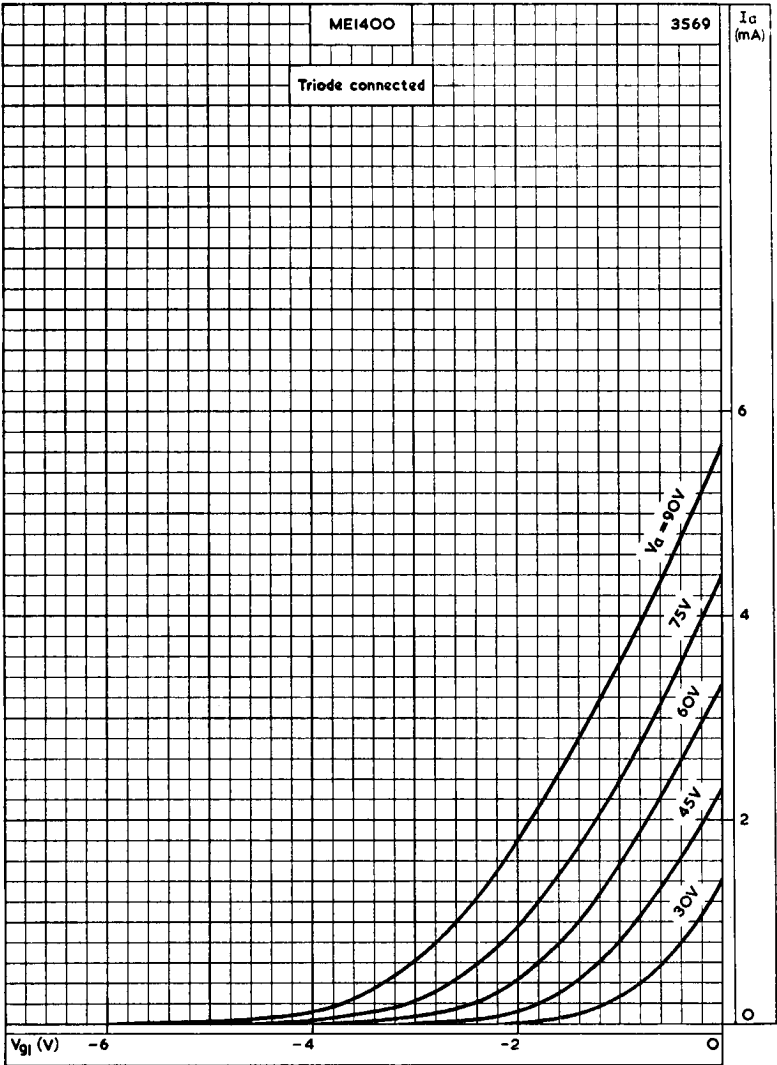




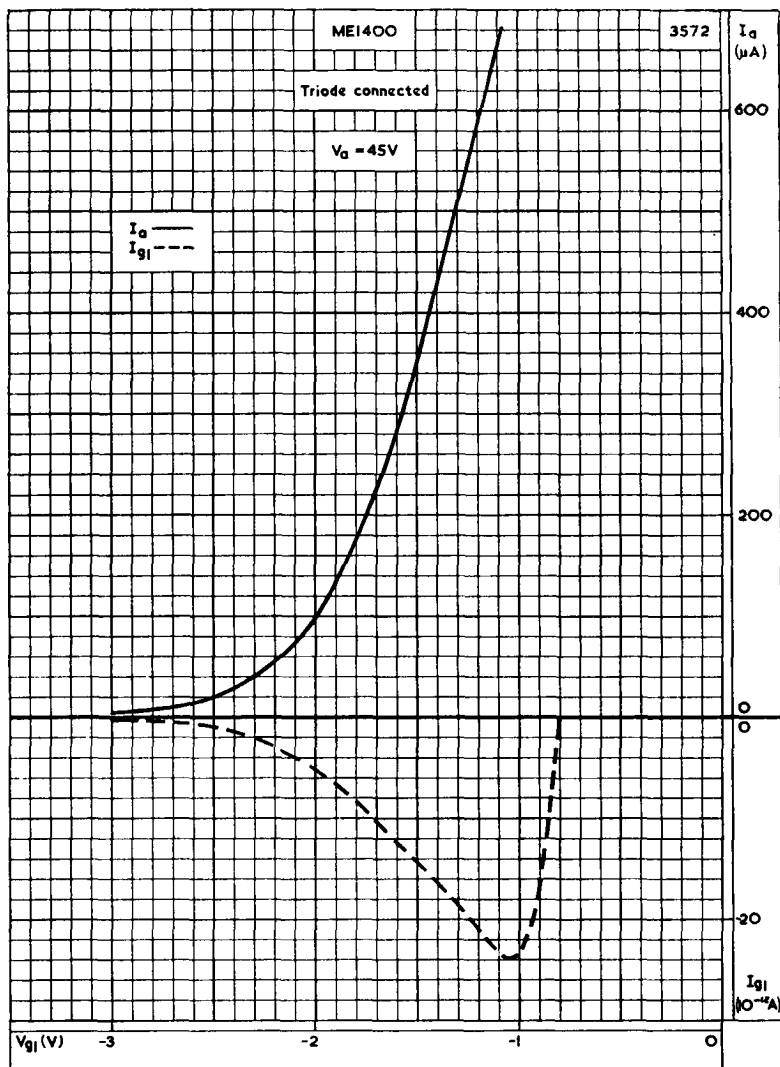
ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE WITH
CONTROL-GRID VOLTAGE AS PARAMETER. $V_{g2} = 45V$



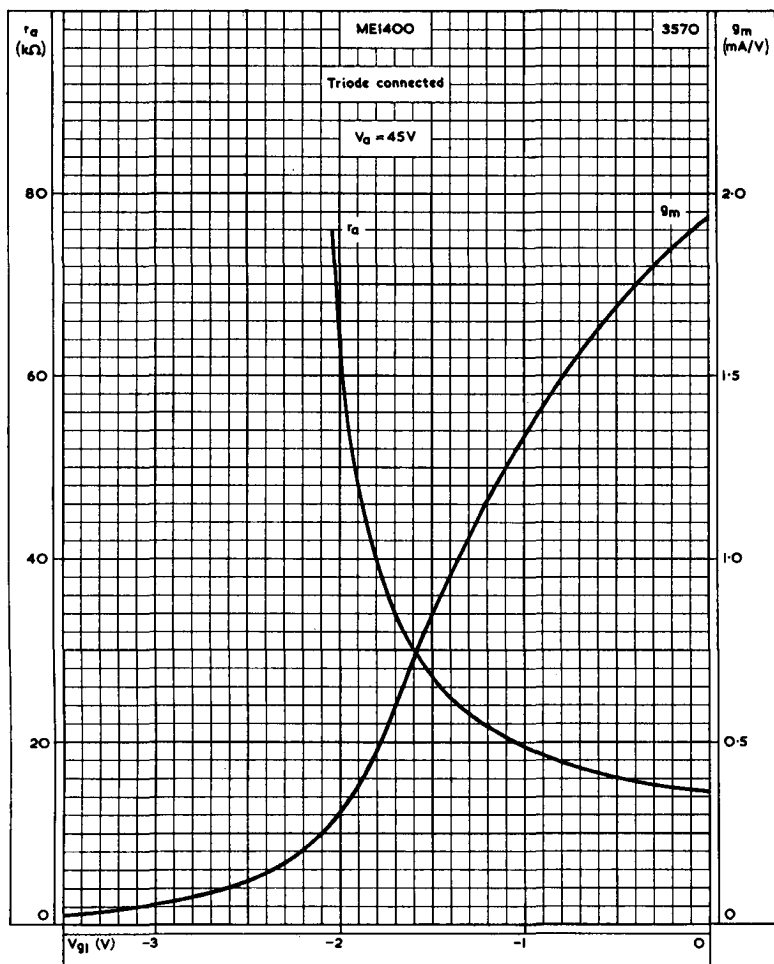
ANODE IMPEDANCE AND MUTUAL CONDUCTANCE PLOTTED AGAINST CONTROL-GRID VOLTAGE. $V_a = V_{g2} = 45V$



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



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. $V_a = 45V$