

V.H.F. TRIODE

Triode intended for use as R.F. amplifier in V.H.F. television receivers.

QUICK REFERENCE DATA

Cathode current	I_k	max. 20	mA
Transconductance	S	20	mA/V
Amplification factor	μ	84	

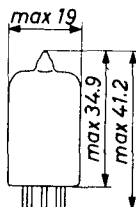
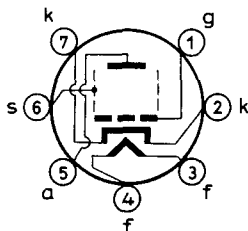
HEATING: Indirect by A.C. or D.C.; series supply

Heater current	I_f	300	mA
Heater voltage	V_f	3.9	V

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Miniature 7p



CAPACITANCES (with external shield, internal diameter 19.1 mm, connected to cathode)

Anode to all except grid	$C_{a(g)}$	3.0	pF
Grid to all except anode	$C_{g(a)}$	4.5	pF
Anode to grid	C_{ag}	0.365	pF
Anode to cathode	C_{ak}	0.08	pF
Grid to cathode	C_{gk}	3.3	pF
Grid to heater	C_{gf}	max. 0.07	pF
Cathode to heater	C_{kf}	2.3	pF

TYPICAL CHARACTERISTICS

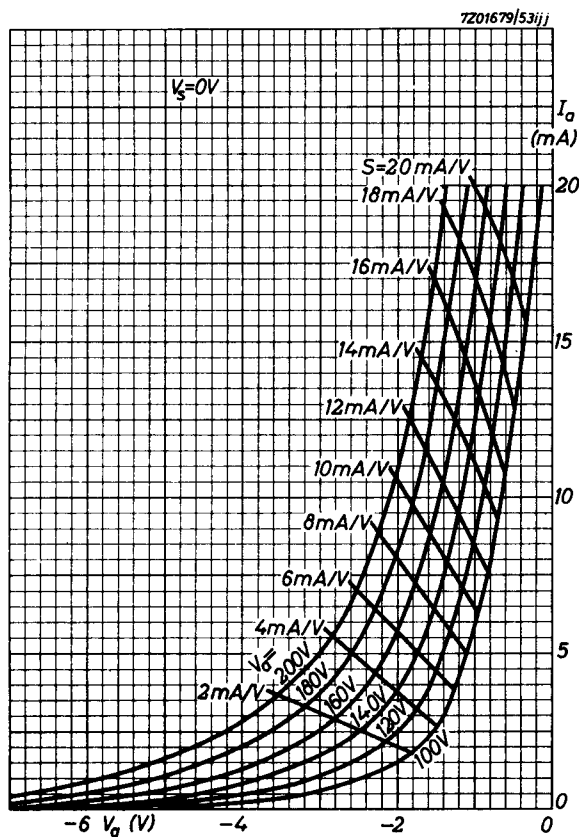
Anode voltage	V_a	135		V
Shield voltage	V_s	0		V
Grid voltage	V_g	-1	-2.8	-5.9 V
Anode current	I_a	11.5	-	- mA
Transconductance	S	14.5	1.45	0.145 mA/V
Amplification factor	μ	76	-	-

OPERATING CHARACTERISTICS

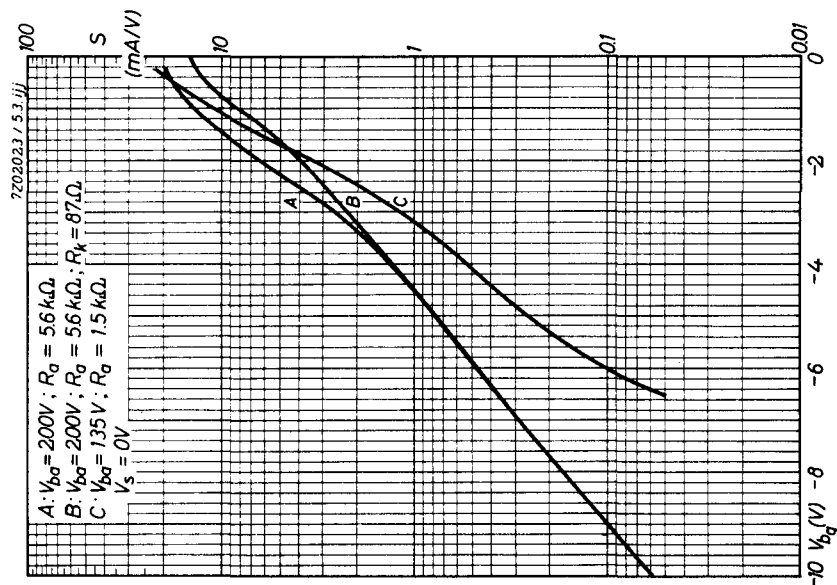
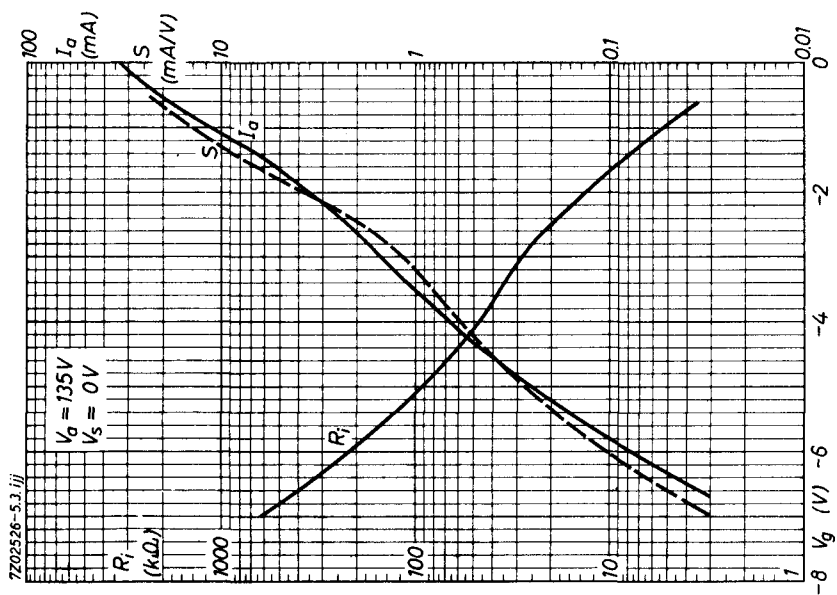
Anode supply voltage	V_{ba}	135	200	200	V
Anode resistor	R_a	1.5	5.6	5.6	k Ω
Shield voltage	V_s	0	0	0	V
Cathode resistor	R_k	0	0	87	Ω
Anode current	I_a	16.5	16.5	11.5	mA
Grid current	I_g	20	20	-	μ A
Transconductance	S	20	20	14.5	mA/V
Amplification factor	μ	84	84	76	
{ Transconductance	S	2	2	1.45	mA/V
{ Grid voltage	V_g	-2.3	-3.2	-3.8	V
{ Transconductance	S	0.2	0.2	0.145	mA/V
{ Grid voltage	V_g	-5.3	-7.7	-8.3	V

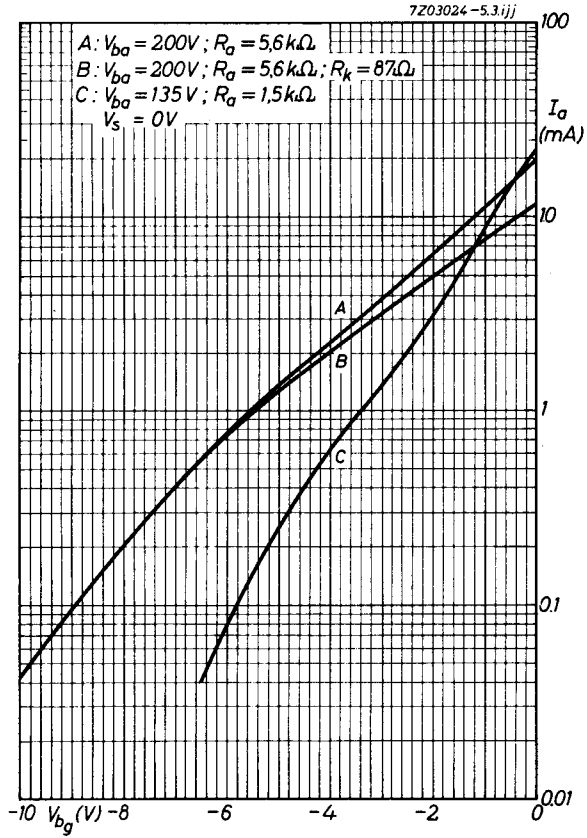
LIMITING VALUES (Design centre rating system)

Anode voltage	V_{a0}	max. 550 V
	V_a	max. 200 V
Anode dissipation	W_a	max. 2.2 W
Cathode current	I_k	max. 20 mA
Negative grid voltage	$-V_g$	max. 50 V
Grid resistor	R_g	max. 1 $M\Omega$
Grid resistor in A.G.C. circuits	R_g	max. 3 $M\Omega$
Cathode to heater voltage	V_{kf}	max. 100 V ¹⁾

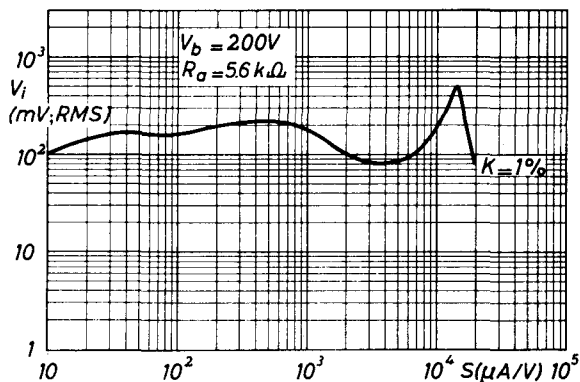
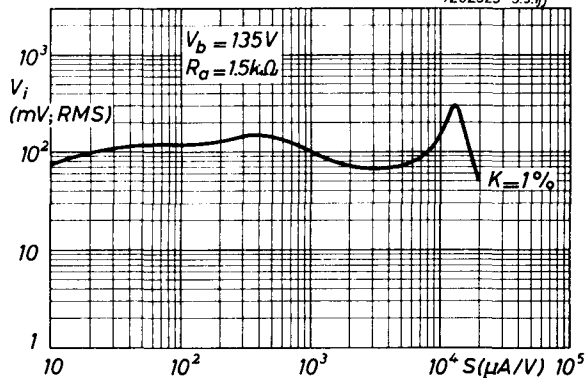


¹⁾ To fulfil the modulation hum requirements, V_{kf} should not exceed 55 V_{RMS}.





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PHILIPS

Data handbook



**Electronic
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PC900

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