

KT86EH

Electrical data

Cathode	Oxide, indirect heating
Filament voltage (AC, DC)	6.3 v
Heater current	1.6 A
Cathode to heater voltage:	
Under positive polarity at cathode	300 V
Under negative polarity at cathode	200V
Interelectrode capacitance:	
Input (nominal)	18.5 pF
Output (nominal)	12.5 pF
Transfer (nominal)	1.1 pF

Mechanical data

Envelope	Glass balloon
Socket	Octal
Operating position	Any
Dimensions:	
Maximum height	125 mm
Balloon diameter, max	52 mm
Maximum weight	100 g

Typical operation

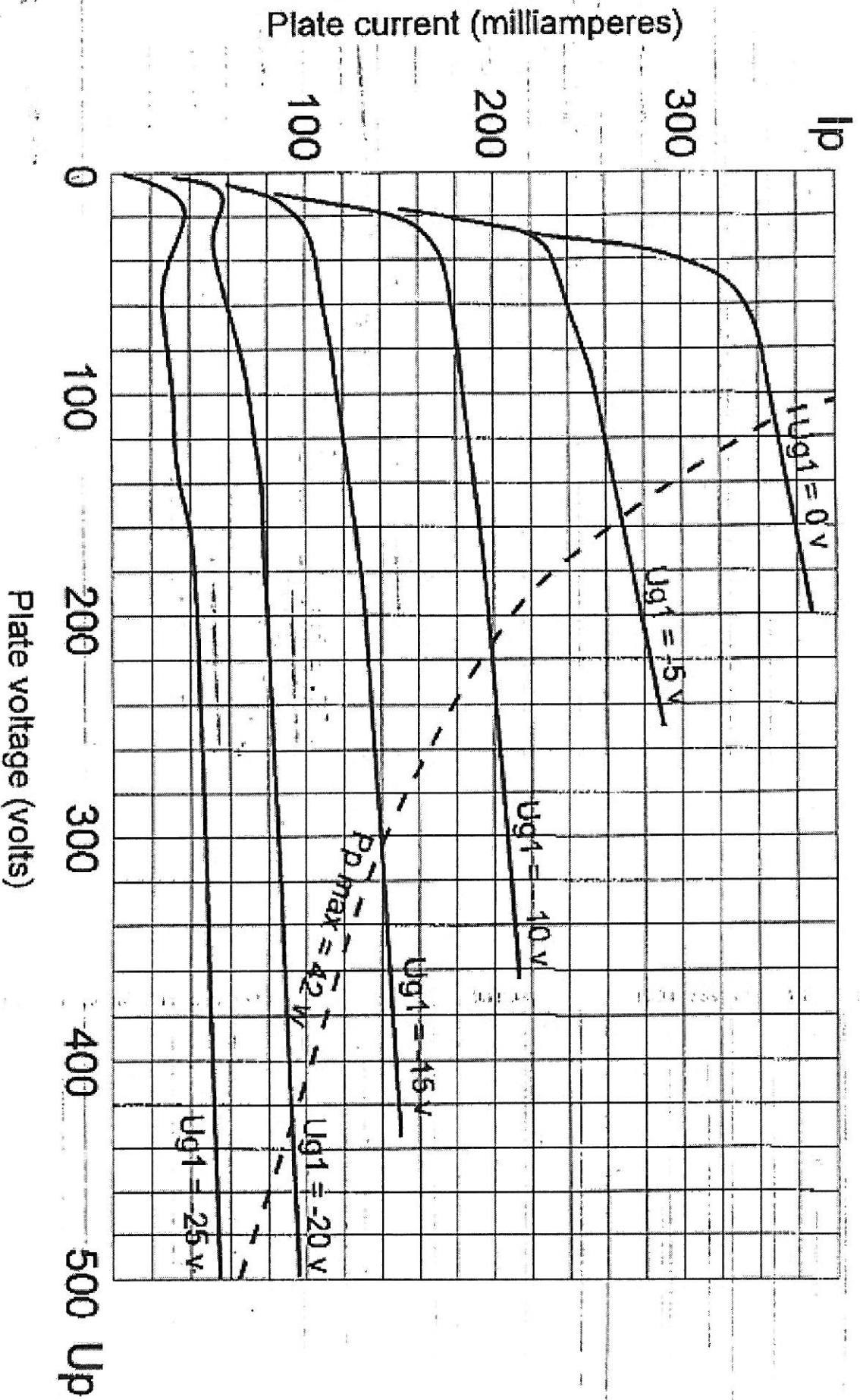
Plate voltage	400 v
Grid 2 voltage	225 v
Grid1 voltage	- 16.5 v
Plate current (without input signal)	90 mA
Grid 2 current (without input signal)	5 mA
Transconductance	9.5 mA/V
Load resistance	3 kOhm
Amplitude of input voltage	16.5 v
Output power	20 W
Non-linear distortions	13.5%

Limiting values

	triode scheme		tetrode scheme	
	min	max	min	max
Filament voltage (AC, DC)	5.7 v	6.9 v	5.7 v	6.9 v
Plate voltage, DC		440 v		800 v
Grid 2 voltage, DC		440 v		600 v
Grid 1 negative voltage		300 v		300 v
Plate dissipation		44 w		42 w
Grid 2 dissipation		6.6 w		6.6 w
Cathode current		193 mA		230 mA
Resistance in grid1 circuit				
at fixed (clamp) bias		0.051 MOh		0.051 MOh
at automatic bias		0.24 MOh		0.24 MOh
Envelope temperature at hottest point		250° C		250° C

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$U_{g2} = 250 \text{ V}, U_f = 6.3 \text{ V}$



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$U_p = 400 \text{ V}$, $U_{g2} = 225 \text{ V}$, $U_f = 6.3 \text{ V}$

