

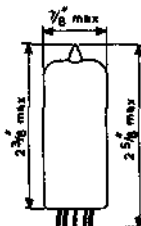
DOUBLE DIODE SEMIREMOTE-CUTOFF R.F. & A.F. PENTODE

GENERAL DATA

Cathode	Coated unipotential
Base	Small-button Noval 9-pin
Bulb	T6 $\frac{1}{2}$
Mounting position	Any

Basing Connections

- Pin 1 - Grid No.2
- Pin 2 - Grid No.1
- Pin 3 - Cathode, internal shield
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Pentode plate
- Pin 7 - Diode No.1 plate
- Pin 8 - Diode No.2 plate
- Pin 9 - Grid No.3



GENERAL ELECTRICAL DATA

Heater voltage	6.3 volts
Heater current	0.3 amp

Direct Interelectrode Capacitances

Pentode input		4.0	μ F
Pentode output		4.6	μ F
Pentode plate to grid No.1	max.	0.002	μ F
Grid No.1 to heater	max.	0.06	μ F
Diode No.1 plate to cathode, heater		2.15	μ F
Diode No.2 plate to cathode, heater		2.35	μ F
Diode No.1 plate to diode No.2 plate	max.	0.3	μ F
Diode No.1 plate to heater	max.	0.02	μ F
Diode No.2 plate to heater	max.	0.01	μ F
Diode No.1 plate to grid No.1	max.	0.008	μ F
Diode No.2 plate to grid No.1	max.	0.001	μ F
Diode No.1 plate to pentode plate	max.	0.2	μ F
Diode No.2 plate to pentode plate	max.	0.1	μ F

MAXIMUM RATINGS (Design-Centre Values)

Diode Section (Each Diode)

Peak plate voltage	200 volts
Plate current	0.8 mA
Plate voltage at plate current - +0.3 μ A	-1.3 volts
Heater-cathode voltage	100 volts
External heater-cathode resistance	20,000 ohms
Peak inverse plate voltage	350 volts

6AD8**"Miniwatt"**Pentode Section

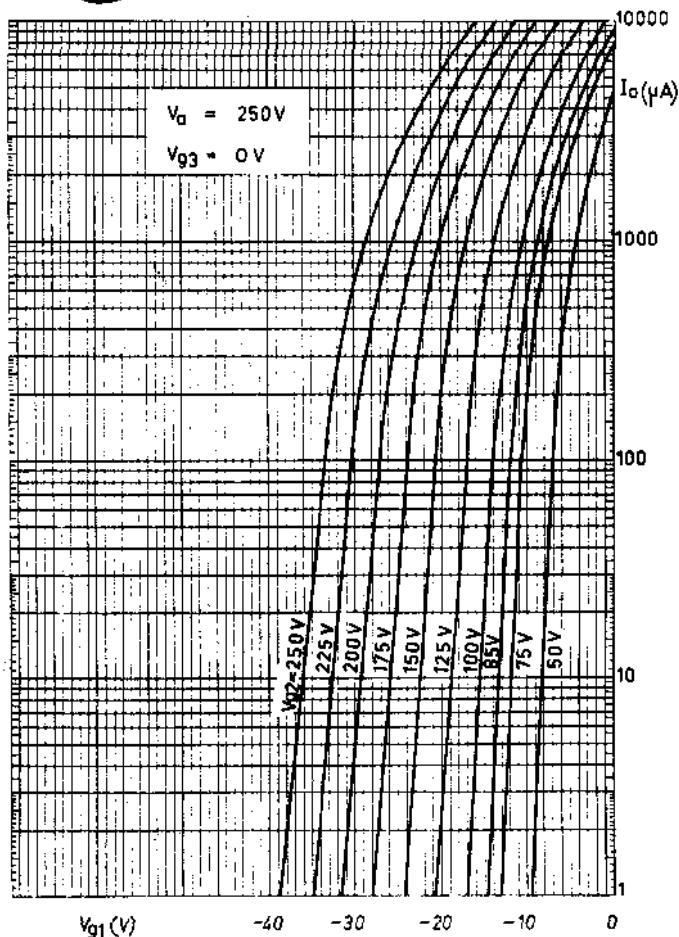
Plate voltage(without current)	550	volts
Plate voltage	250	volts
Plate dissipation	2	watts
Grid No.2 voltage(without current)	550	volts
Grid No.2 voltage(plate current less than 2.5 mA)	250	volts
Grid No.2 voltage(plate current = 5 mA)	125	volts
Grid No.2 dissipation	0.3	watts
Cathode current	9	mA
Grid No.1 voltage at grid No.1 current = + 0.3 μ A	-1.3	volts
External grid No.1 resistance	3	megohms
External grid No.1 resistance for grid current biasing	22	megohms
Heater-cathode voltage	100	volts
External heater-cathode resistance	20,000	ohms

TYPICAL OPERATING CONDITIONSR.F. or I.F. Amplifier

Plate voltage	250	volts
Grid No.2 voltage	85	volts
Grid No.3 voltage	0	volts
Grid No.1 voltage	-2	volts
Cathode resistor	225	ohms
Plate current	6.7	mA
Grid No.2 current	2.3	mA
Mutual conductance	1100	μ hos
Plate resistance	1	megohm
Amplification factor(grid No.2 to grid No.1)	8.8	
Grid No.1 voltage at .01 of nominal mutual conductance	-15	volts

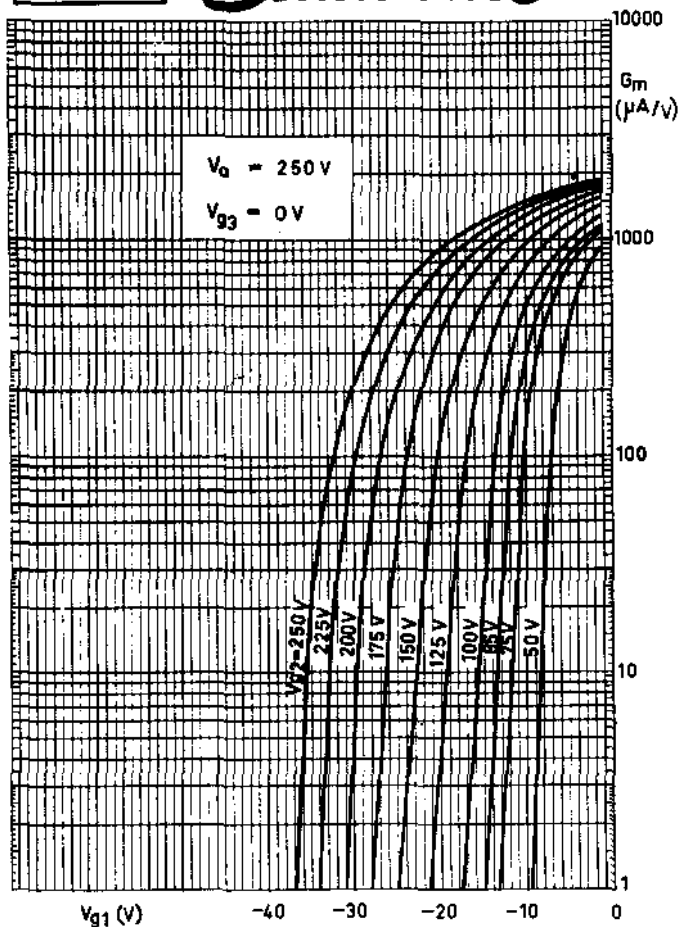
"Miniwatt"

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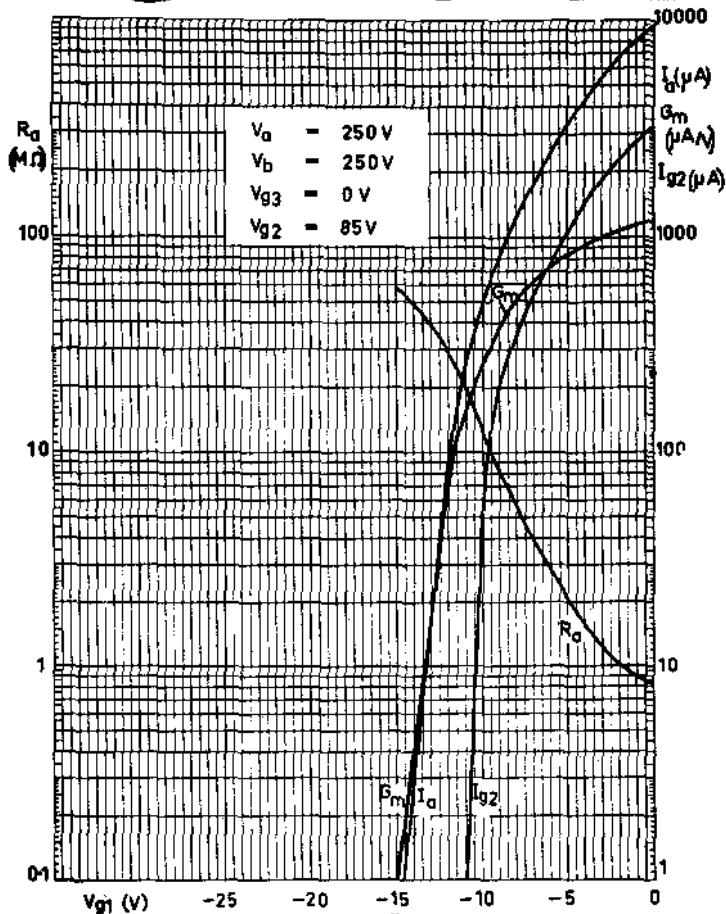
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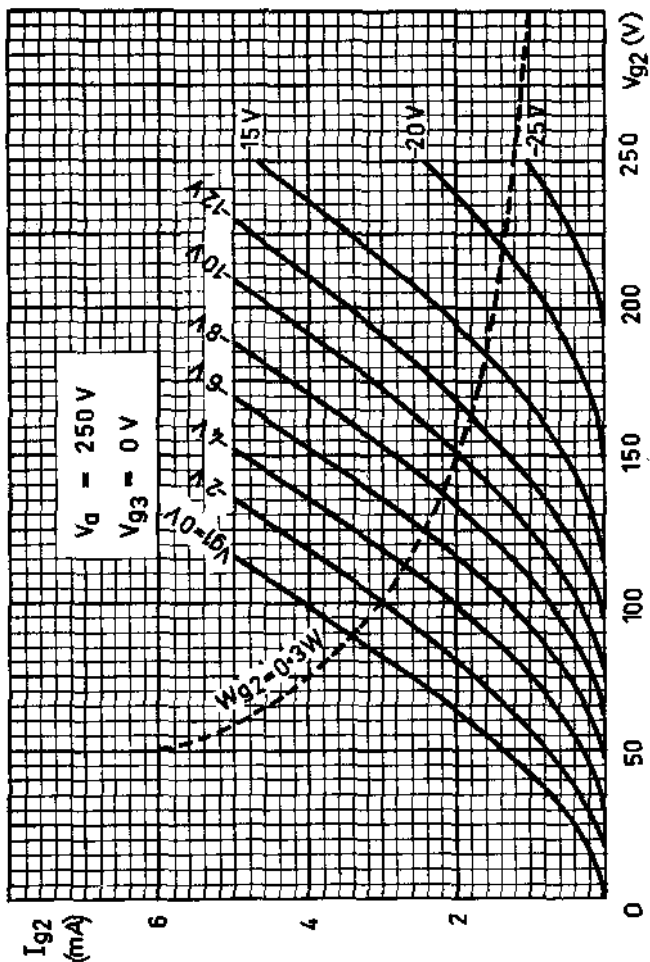
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