

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

GENERAL DATA

Cathode

Base

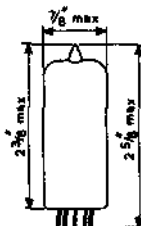
Bulb

Mounting position

Coated unipotential
Small-button Noval 9-pin
T6½
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	μF
Pentode output		4.6	μF
Pentode plate to grid No.1	max.	0.002	μF
Grid No.1 to heater	max.	0.06	μF
Diode No.1 plate to cathode, heater		2.15	μF
Diode No.2 plate to cathode, heater		2.35	μF
Diode No.1 plate to diode No.2 plate	max.	0.3	μF
Diode No.1 plate to heater	max.	0.02	μF
Diode No.2 plate to heater	max.	0.01	μF
Diode No.1 plate to grid No.1	max.	0.008	μF
Diode No.2 plate to grid No.1	max.	0.001	μF
Diode No.1 plate to pentode plate	max.	0.2	μF
Diode No.2 plate to pentode plate	max.	0.1	μF

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 μA	-1.3 volts
Heater-cathode voltage	100 volts
External heater-cathode resistance	20,000 ohms
Peak inverse plate voltage	350 volts

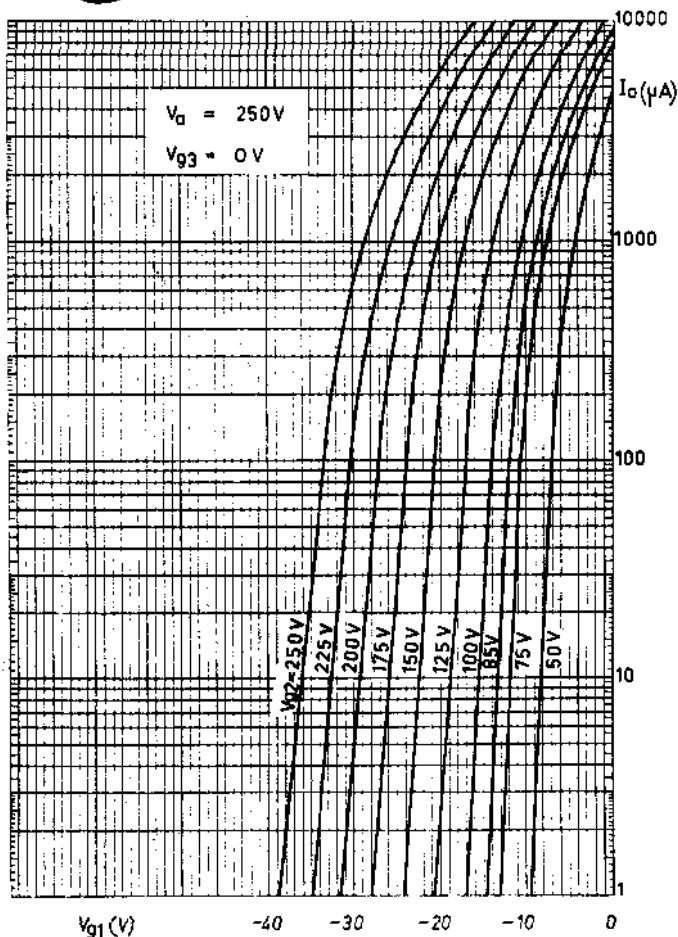
6AD8**"Miniwatt"**Pentode Section

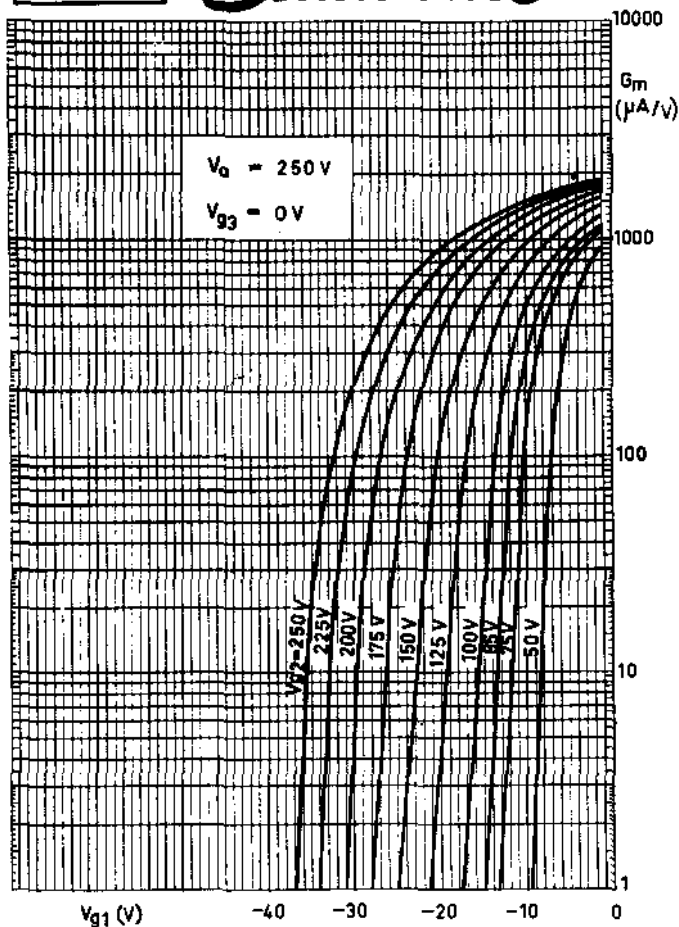
Plate voltage(without current)	550	volts
Plate voltage	250	volts
Plate dissipation	2	watts
Grid No.2 voltage(without current)	550	volts
Grid No.2 voltage(plate current less than 2.5 mA)	250	volts
Grid No.2 voltage(plate current = 5 mA)	125	volts
Grid No.2 dissipation	0.3	watts
Cathode current	9	mA
Grid 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 mhos
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" 6AD8



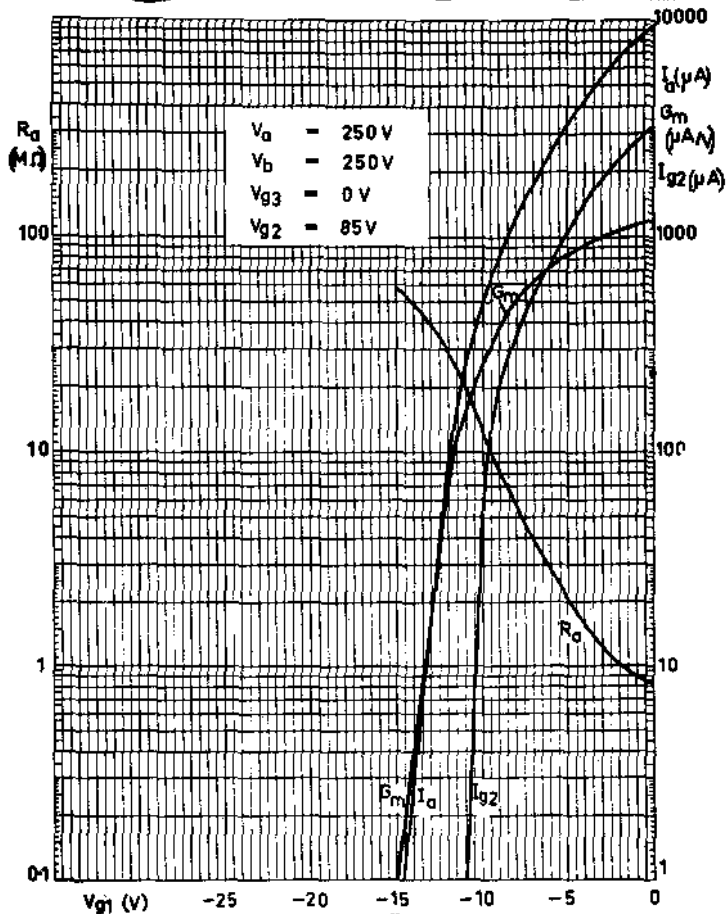
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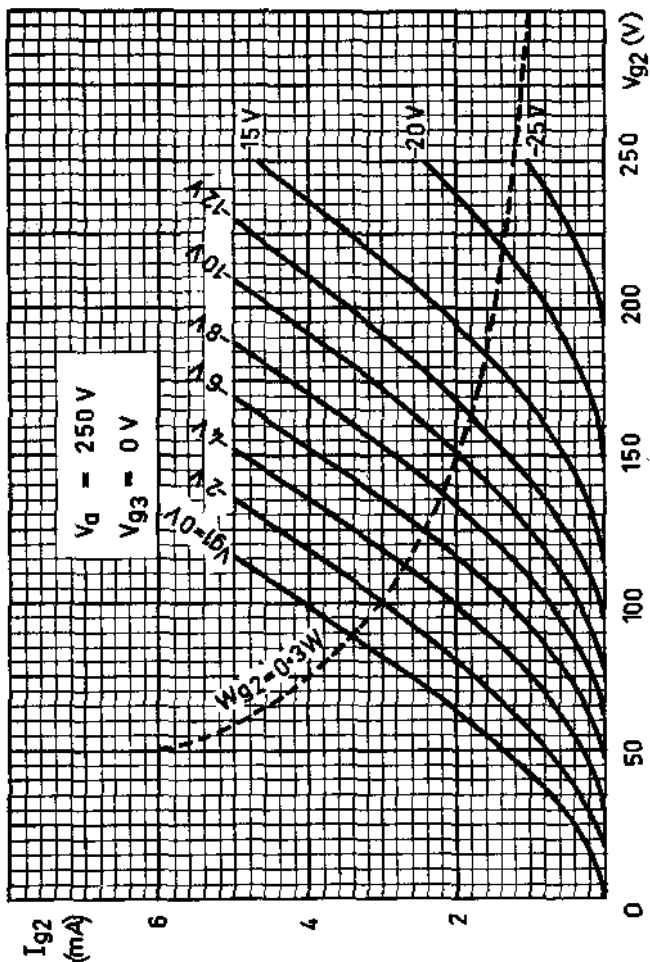
"Miniwatt"

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