

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

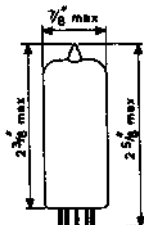
GENERAL DATA

Cathode
Base
Bulb
Mounting position

Coated unipotential
Small-button Noval 9-pin
T6 $\frac{1}{2}$
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.	0.0008	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

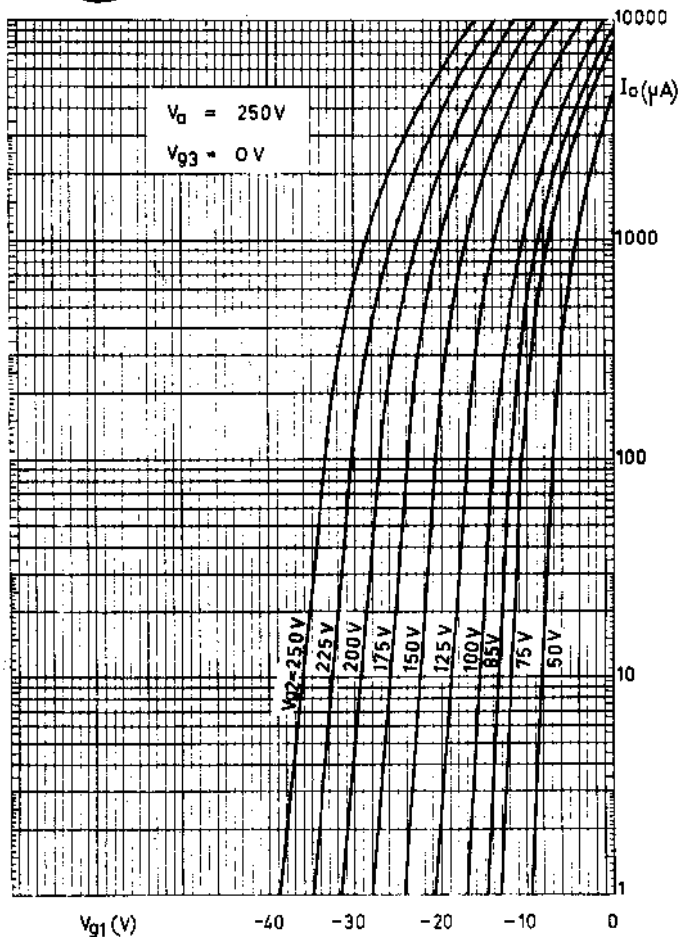
6AD8*Miniwatt*Pentode Section

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

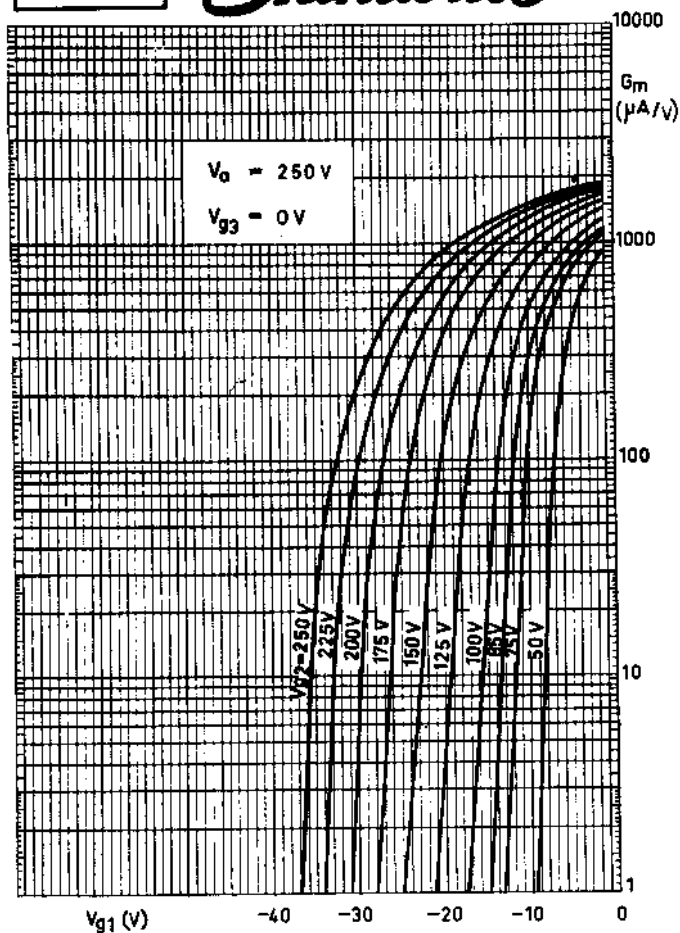
Plate voltage	250	volts
Grid No. 2 voltage	85	volts
Grid No. 3 voltage	0	volts
Grid No. 1 voltage	-2	volts
Cathode resistor	225	ohms
Plate current	6.7	mA
Grid No. 2 current	2.3	mA
Mutual conductance	1100	μ mhos
Plate resistance	1	megohm
Amplification factor (grid No. 2 to grid No. 1)	8.8	
Grid No. 1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

"Miniwatt" 6AD8



A

1.6.1960

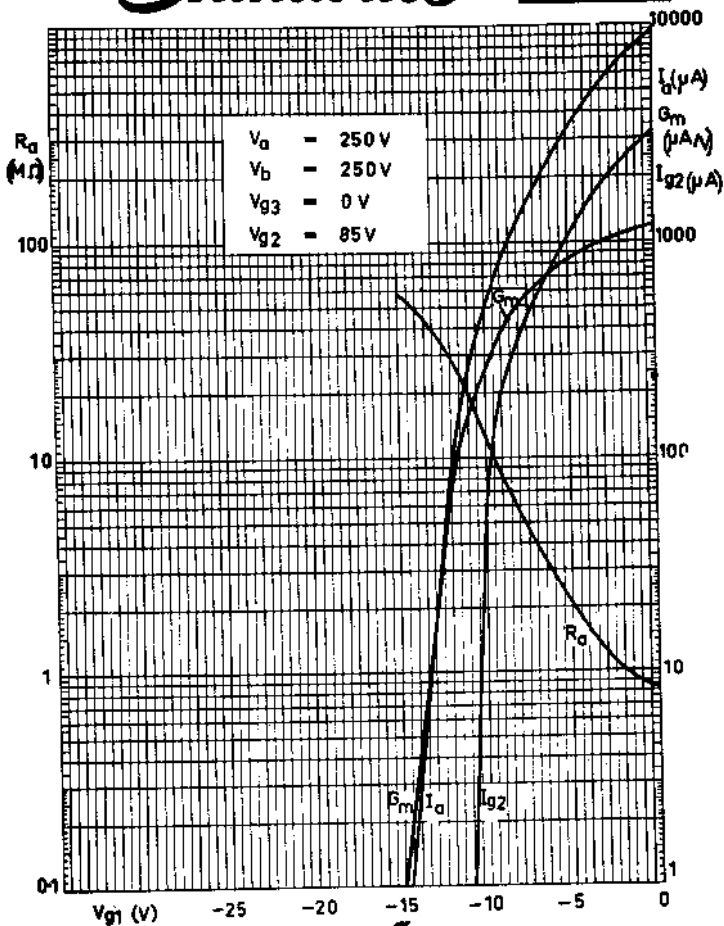
6AD8*Miniwatt*

1.6.1960

B

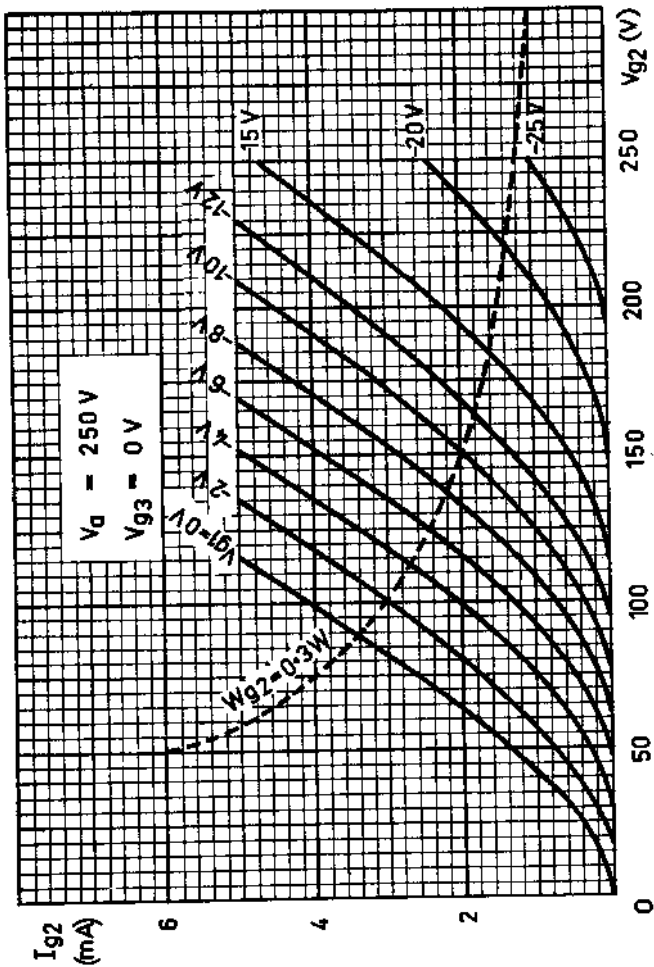
"Miniwatt"

6AD8



1.6.1960

C

6AD8*“Miniwatt”*

1.6.1960

D