AZ 4 Rectifying valve

The AZ 4 is a directly-heated full-wave rectifying valve for receivers consuming a heavy current.

FILAMENT RATINGS

Heating: direct, A.C.

Filament voltage	V_f	= 4.0 V
Filament current	I_f	= 2.3 A

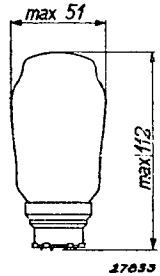

Fig. 1
Dimensions in mm.

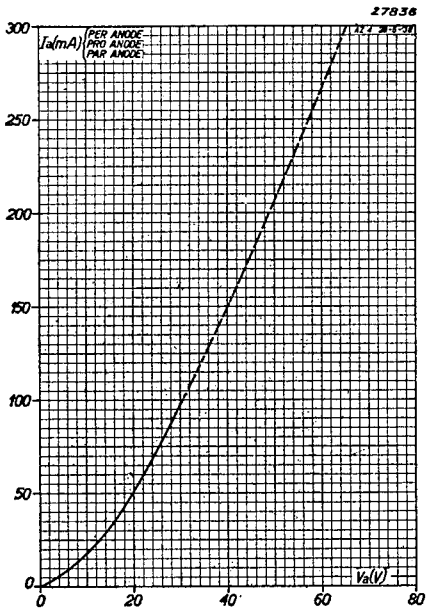

Fig. 3
Current per anode, as a function of the applied direct voltage.

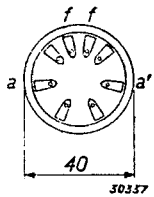

Fig. 2
Arrangement of base connections and electrodes.

MAXIMUM RATINGS

Voltage, on no load, across the secondary winding of the power transformer	V_{tr}	= max. 2 × 500 V_{eff}
D.C. output with V_{tr} = 2 × 500 V_{eff}	I_o	= max. 120 mA
D.C. output with V_{tr} = 2 × 400 V_{eff}	I_o	= max. 150 mA
D.C. output with V_{tr} = 2 × 300 V_{eff}	I_o	= max. 200 mA
Capacitance of the first smoothing capacitor	C	= max. 60 μF

For medium-power amplifier equipment two AZ 4 valves each working as a half-wave rectifying valve (anodes connected in parallel) may be used in a full-wave rectifier circuit.

If the valve is to be mounted horizontally it should be located so that the filament lies in the vertical plane.

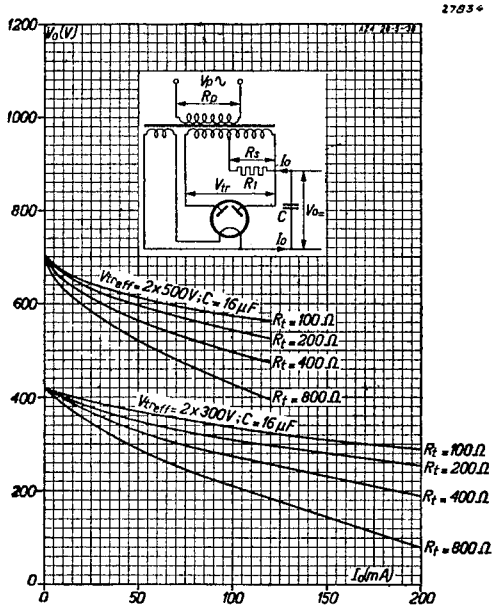

Fig. 4
Loading characteristics for transformer voltages, on no load, of Vtr = 2 × 300 V and 2 × 500 V and with respect to different values of the internal resistance of the transformer ($Rt = Rs + n^2 Rp + R_i$).

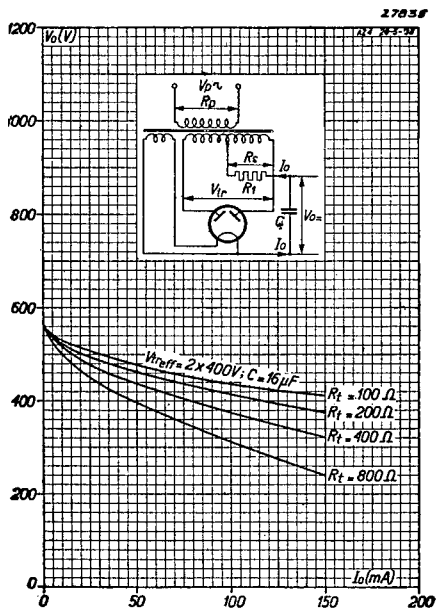

Fig. 5
Loading characteristics relating to Vtr = 2 × 400 V, for different values of the internal resistance of the transformer ($Rt = Rs + n^2 Rp + R_i$).