

MAINS RECTIFIER PY 82

DESCRIPTION

The PY 82 is an all-glass diode on Noval base, intended for use as a mains rectifier in receivers with series-connected heaters. Used as a half-wave

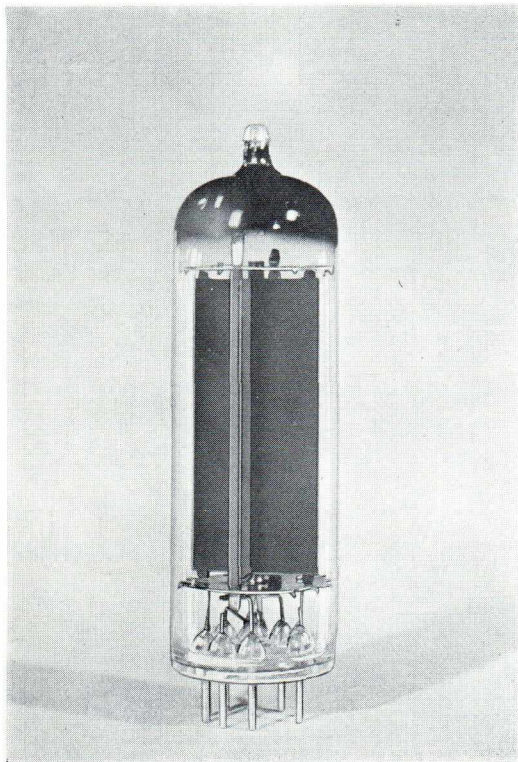


Fig. 124. The mains rectifier PY 82 (actual size).

mains rectifier the PY 82 will provide a rectified output of 180 mA at an input voltage of 250 V_{rms}, thus satisfying the requirements of receivers of a simple type. To supply the heavier H.T. drain for more elaborate television receivers it is necessary to employ two PY 82 rectifiers in parallel.

TECHNICAL DATA

HEATER DATA

Heating: indirect by A.C. or D.C.
series supply

Heater voltage	V_f	19 V
Heater current	I_f	0.3 A

TYPICAL OPERATING CONDITIONS

Input voltage	V_{tr}	250	240	220	200	127 V _{rms}
Reservoir	capacitance C_{filt}	60	60	60	60	60 μ F
Limiting resistor	R_t	125	105	65	30	0 Ω
Output current	I_o	180	180	180	180	180 mA
Output voltage	V_o	195	195	195	195	127 V

LIMITING VALUES

Input voltage	V_{tr}	max. 250 V _{rms}
Peak inverse voltage	$V_{a invp}$	max. 700 V
Output current	I_o	max. 180 mA
Voltage between heater and cathode	V_{kfp}	max. 550 V ¹⁾
Reservoir capacitance	C_{filt}	max. 60 μ F ²⁾
Heater voltage during the warming-up period		max. 28.5 V

Minimum permissible values
for the limiting resistor

V_{tr}	250	240	220	200	127 V _{rms}
R_t	100	80	40	30	0 Ω

BASE CONNECTIONS AND DIMENSIONS (in mm)

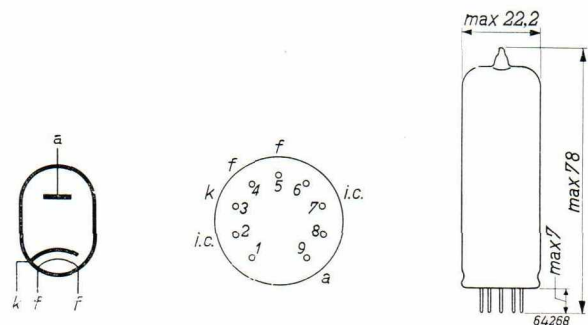


Fig. 125.

Mounting position: any

¹⁾ Maximum 220 V_{rms} alternating voltage + maximum 250 V direct voltage. Cathode positive with respect to heater.

²⁾ When two tubes PY 82 are connected in parallel the maximum reservoir capacitance is 100 μ F. In this case each anode must have the minimum limiting resistor specified above.

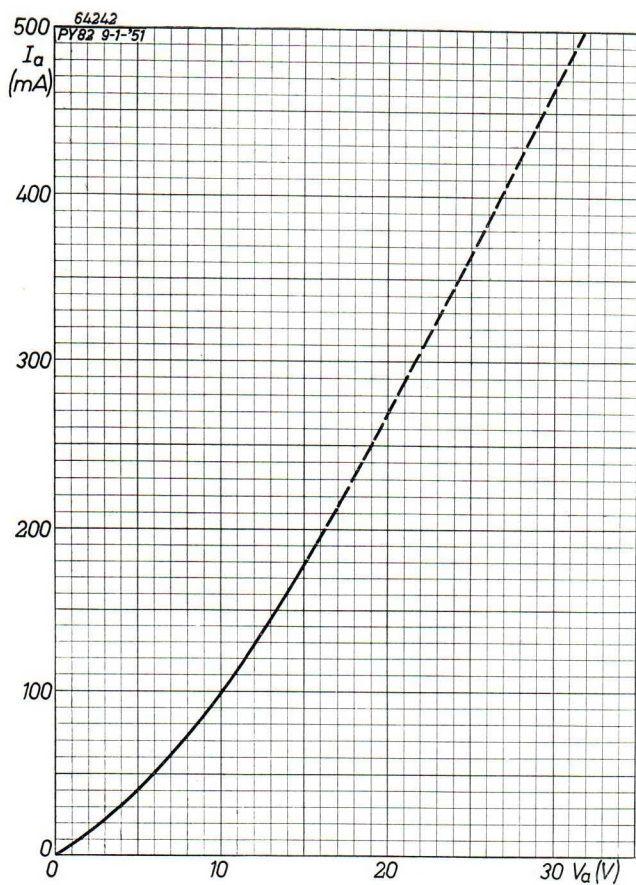


Fig. 126.
Anode current plotted
against anode voltage.

Fig. 127.
Regulation curves of
PY 82.

