

HALF-WAVE RECTIFIER

PY82

Half-wave rectifier with 300mA heater for use in television receivers with series connected heaters.

HEATER

Suitable for series operation, a.c. or d.c.

I_h	300	mA
V_h	19	V

LIMITING VALUES

P.I.V. max.	700	V
$V_{a(r.m.s.)}$ max.	250	V
I_{out} max.	180	mA
$i_{a(pk)}$ max.	1.12	A ←
$i_{a(surge)}$ max.	5.0	A ←
C max. (single valve)	60	μF
C max. (two valves in parallel)	100	μF
$*V_{h-k(pk)}$ max. (cathode positive)	550	V

*Maximum d.c. component = 250V. Maximum a.c. component = 220V r.m.s.

OPERATING CONDITIONS FOR TWO PY82 IN PARALLEL*

$V_{in(r.m.s.)}$	200	210	220	230	240	250	V
R_{lim} min.							
(per anode)	30	33	36	39	42	45	Ω
C	100	100	100	100	100	100	μF
I_{out}	350	328	306	284	262	240	mA
V_{out}	198	212	226	242	256	270	V

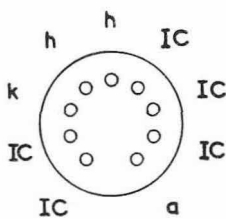
*For television receivers, where a constant output voltage is required for different input voltages, the values of limiting resistors required can be obtained from the curves on pages C4 and C5.

PY82

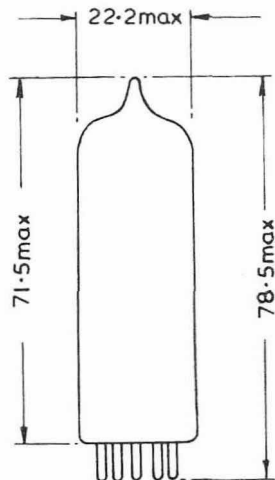
HALF-WAVE RECTIFIER

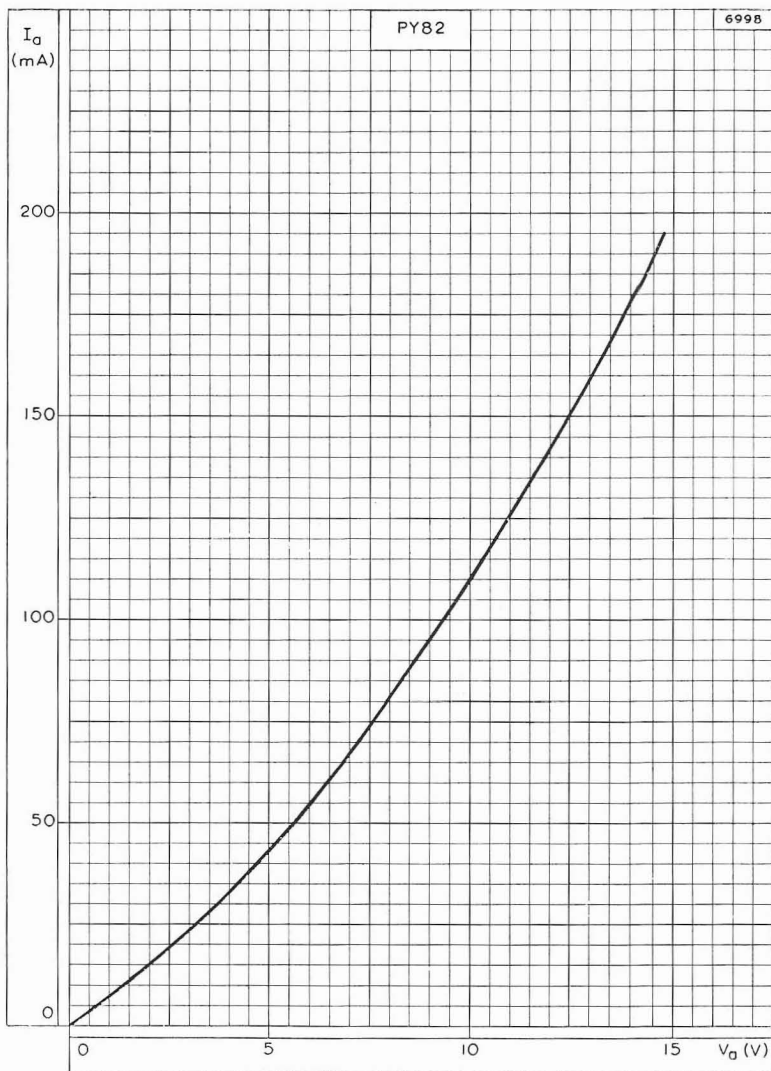


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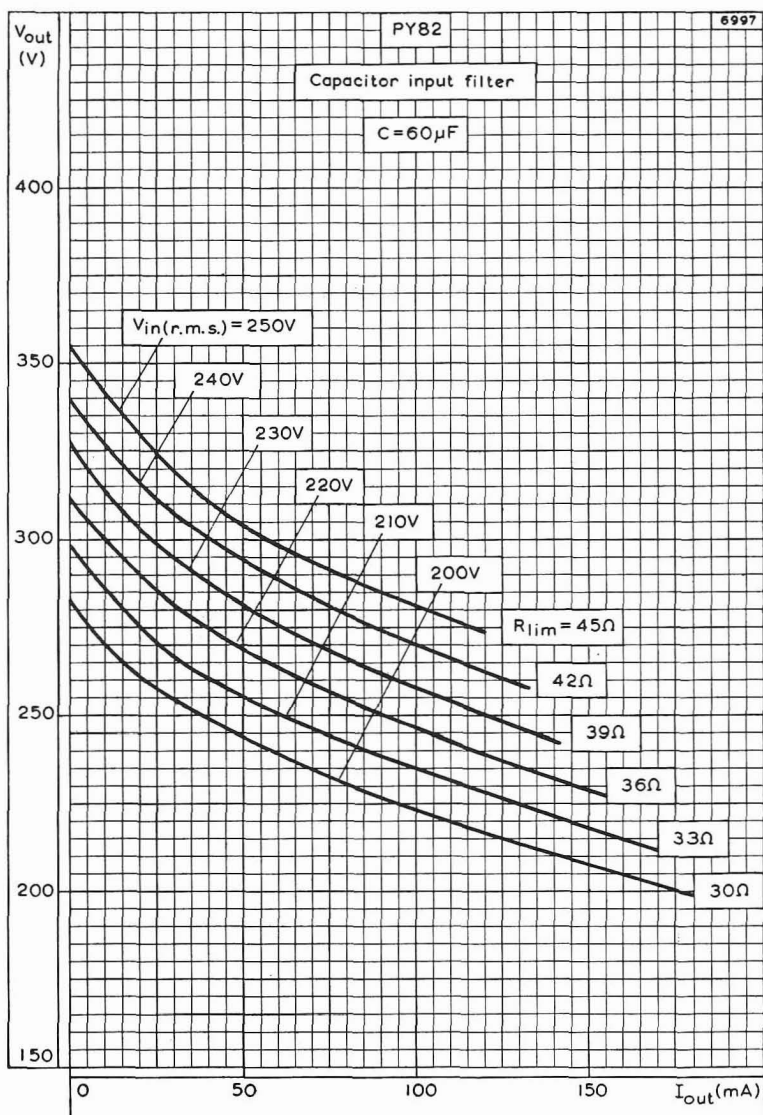


B9A Base
All dimensions in mm

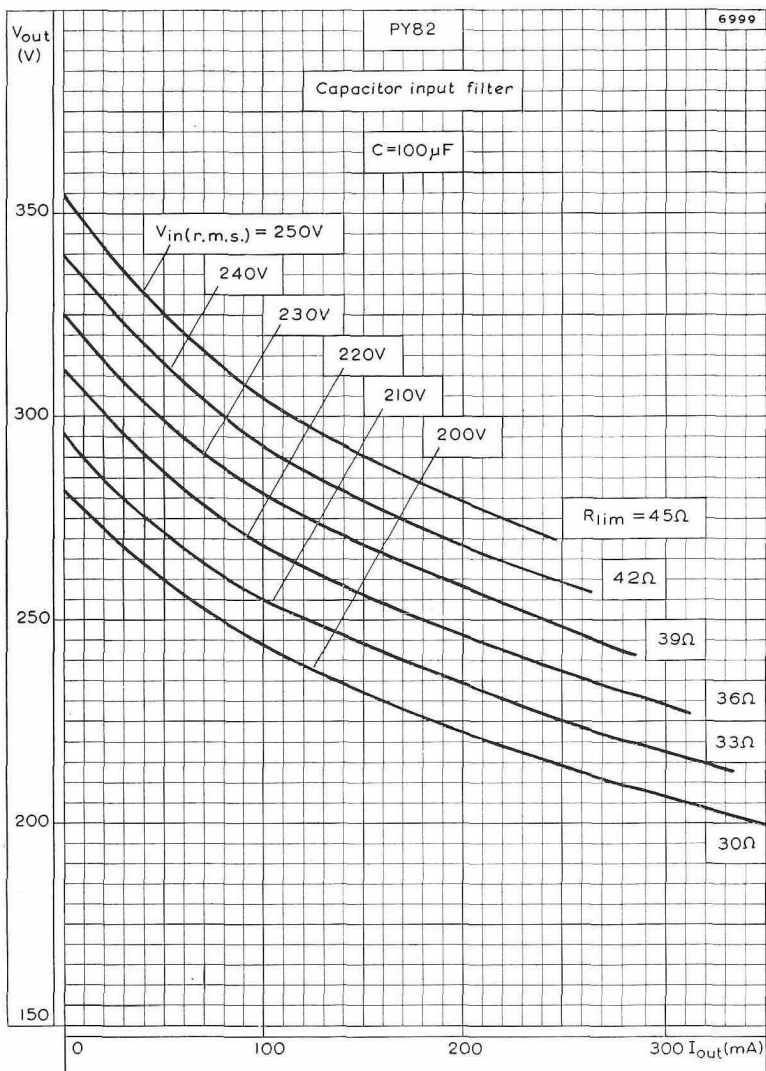




ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE



CAPACITOR INPUT FILTER REGULATION CURVES.
(SINGLE VALVE OPERATION)



CAPACITOR INPUT FILTER REGULATION CURVES.
(TWO VALVES IN PARALLEL)

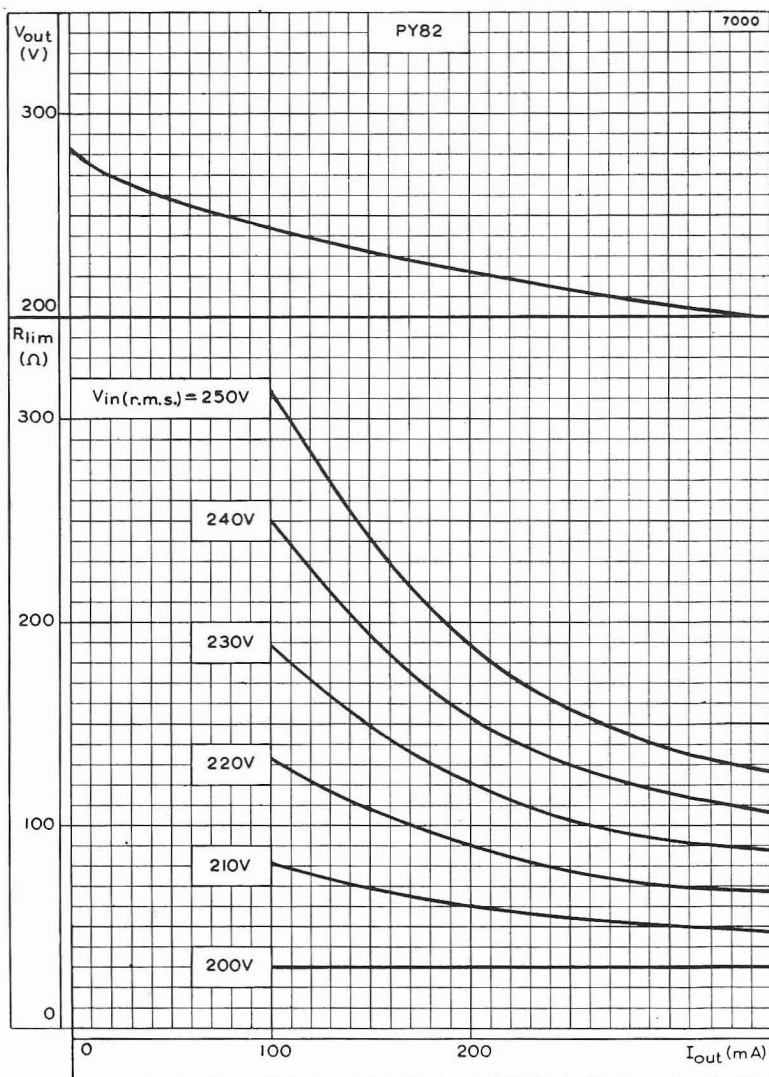


CHART FOR DETERMINING THE VALUE OF LIMITING RESISTOR REQUIRED TO GIVE CONSTANT OUTPUT VOLTAGE WITH VARIOUS INPUT VOLTAGES (TWO VALVES IN PARALLEL)

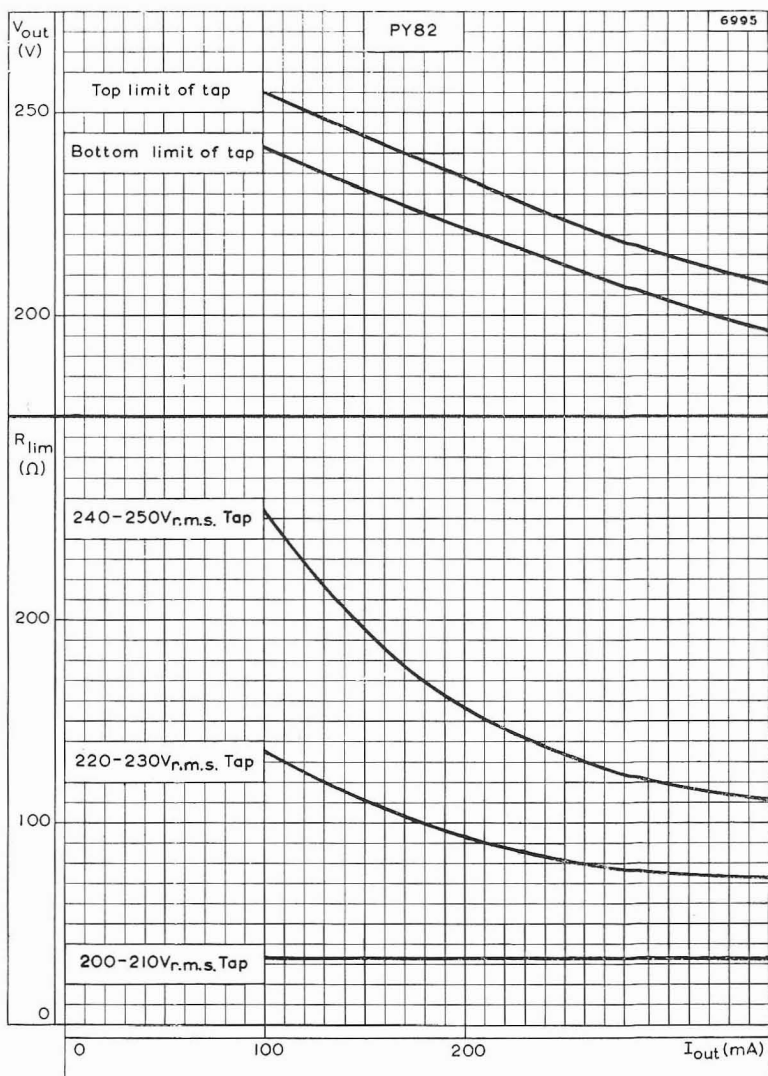


CHART FOR DETERMINING THE VALUE OF LIMITING RESISTOR REQUIRED FOR A RECEIVER USING THREE MAINS TAPS, AND THE RESULTANT SPREAD IN OUTPUT VOLTAGE (TWO VALVES IN PARALLEL)

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