

HALF-WAVE RECTIFIER

PY33

*Indirectly-heated 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	29	V

DESIGN CENTRE RATINGS

P.I.V. max.	700	V
$V_{a(r.m.s.)}$ max.	250	V
I_{out} max.	325	mA
$i_{a(pk)}$ max.	2.6	A
$i_{a(surge)}$ max.	9.5	A
C max.	200	μF
$*V_{h-k(pk)}$ max. (cathode positive)	625	V

*Max. d.c. component = 275V. Max. a.c. component = $250V_{r.m.s.}$

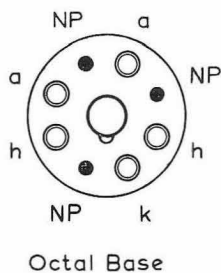
OPERATING CONDITIONS*

$V_{in(r.m.s.)}$	200	210	220	230	240	250	V
I_{out}	325	325	295	270	240	220	mA
C	200	200	200	200	200	200	μF
R_{lim} min.	15	17	19	21	23	25	Ω
V_{out}	209	219	234	249	264	280	V

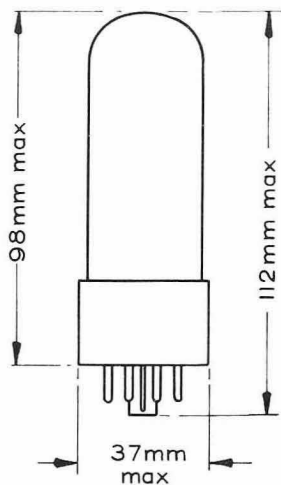
*For television receivers, where a constant output voltage is required for different input voltages, the values of limiting resistor required can be obtained from the curves on pages C3 and C4.

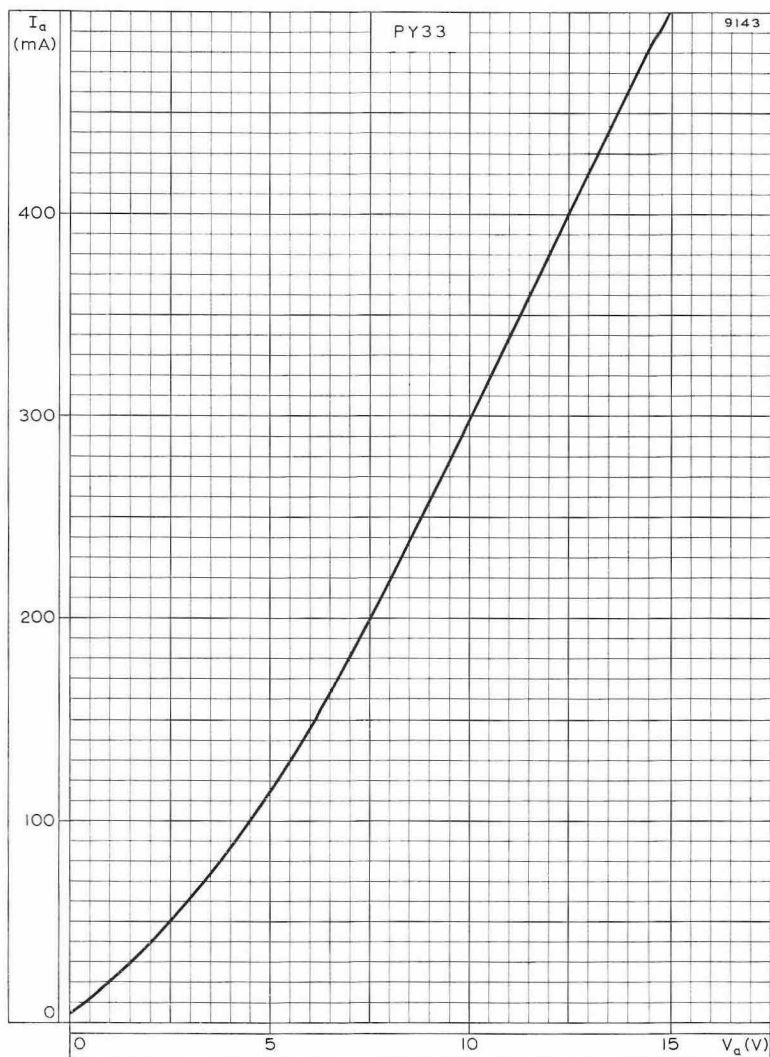
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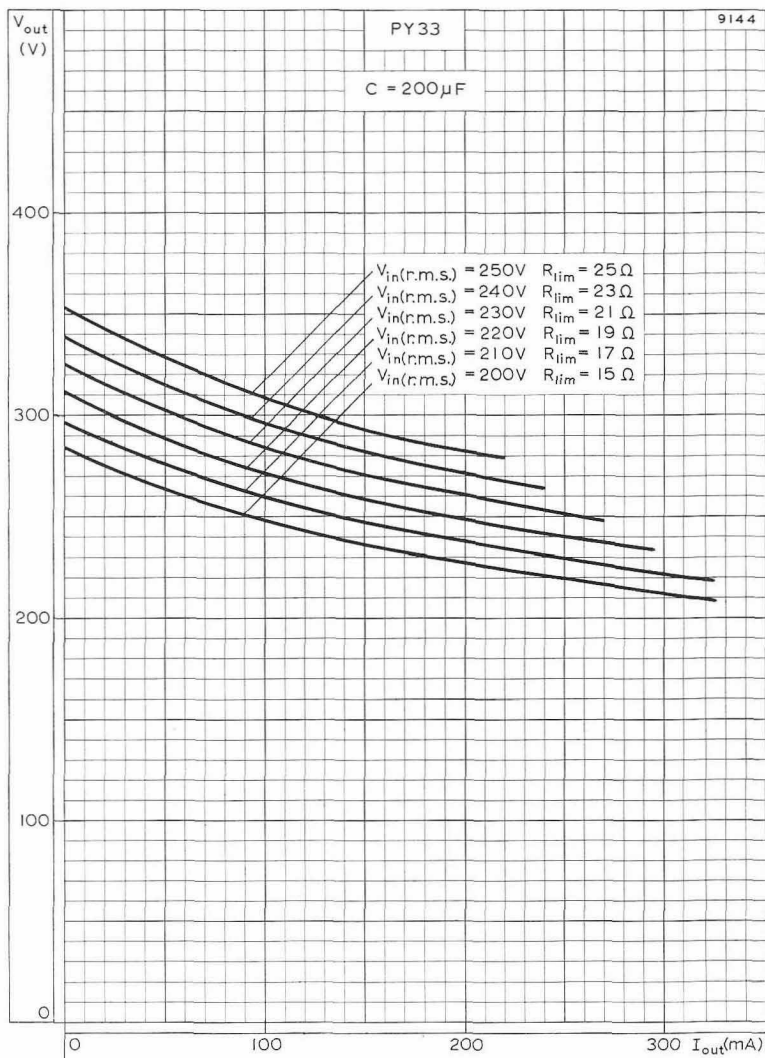


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ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE



REGULATION CURVES

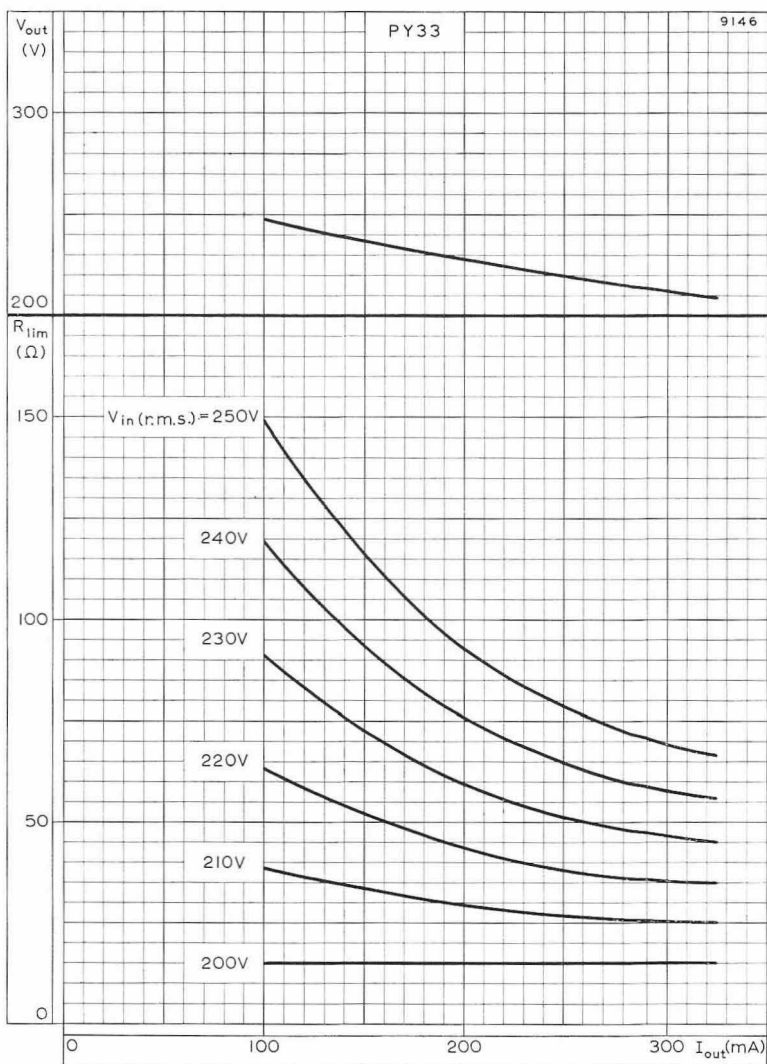


CHART FOR DETERMINING THE VALUE OF LIMITING RESISTOR REQUIRED TO GIVE CONSTANT OUTPUT VOLTAGE WITH VARIOUS INPUT VOLTAGES

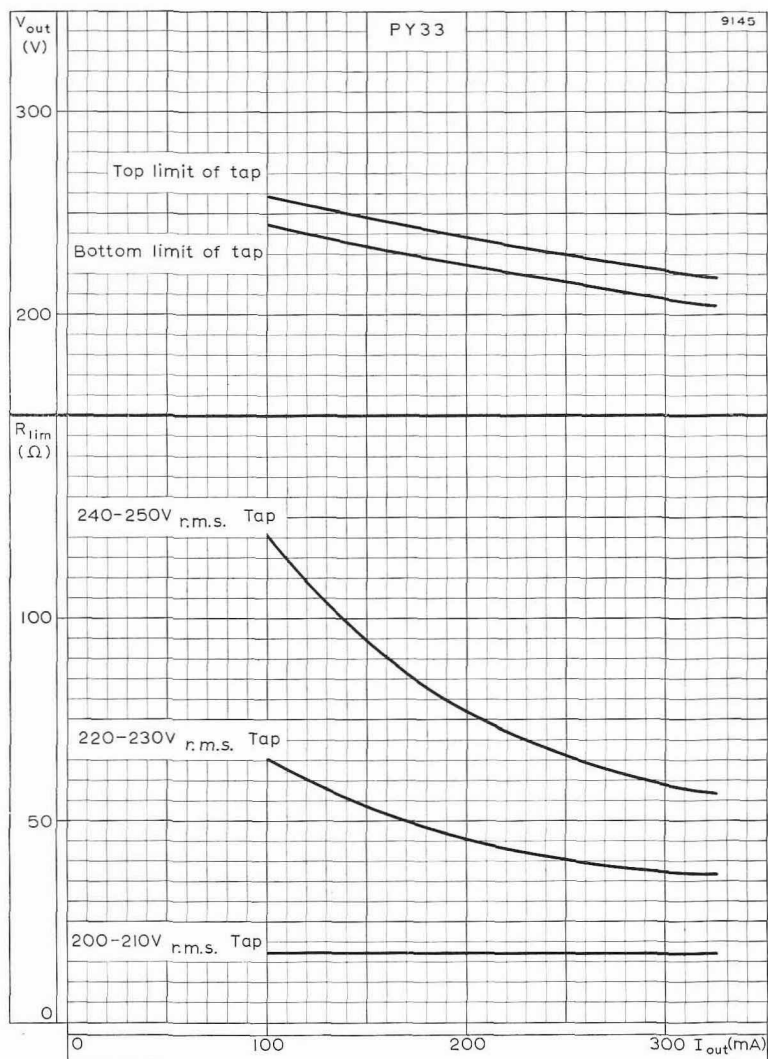


CHART FOR DETERMINING THE VALUE OF LIMITING RESISTOR REQUIRED FOR A RECEIVER USING THREE MAINS TAPS, AND RESULTANT SPREAD IN OUTPUT VOLTAGE