

## HALF-WAVE RECTIFIER

# PY32

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

### LIMITING VALUES

P.I.V. max.	700	V
$V_{a(r.m.s.)}$ max.	250	V
$I_{out}$ max.	325	mA ←
$i_{a(pk)}$ max.	2.1	A ←
$i_{a(surge)}$ max.	7.5	A
C max.	100	$\mu$ F
$*V_{h-k(pk)}$ max. (cathode positive)	550	V

\*Max. d.c. component = 250V. Max. a.c. component =  $220V_{r.m.s.}$

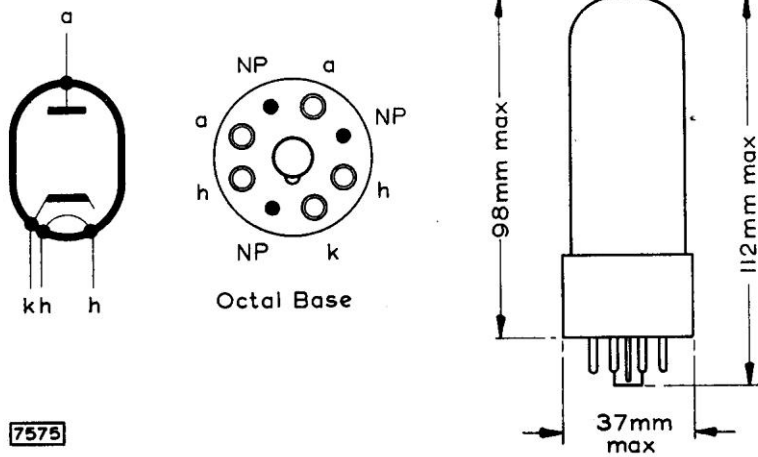
### OPERATING CONDITIONS\*

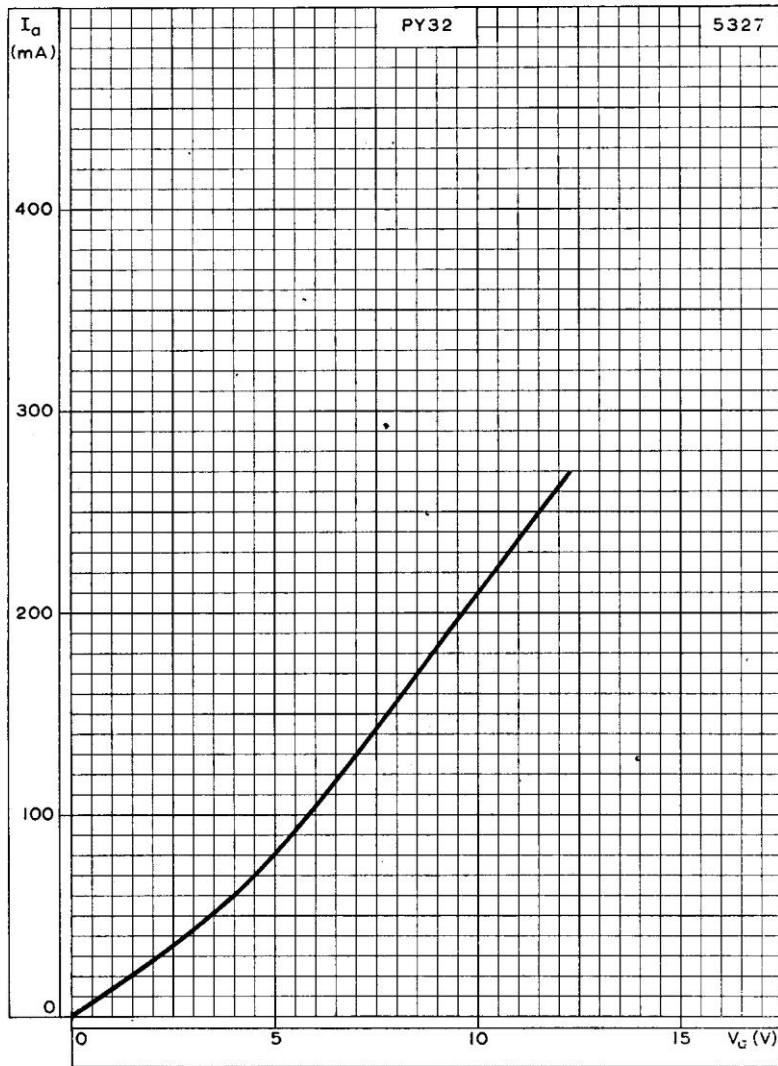
$V_{in(r.m.s.)}$	200	210	220	230	240	250	V
$I_{out}$	325	325	296	267	238	210	mA ←
C	100	100	100	100	100	100	$\mu$ F
$R_{lim}$ min.	23	25	27	29	31	33	$\Omega$
$V_{out}$	182	194	212	230	248	264	V ←

\*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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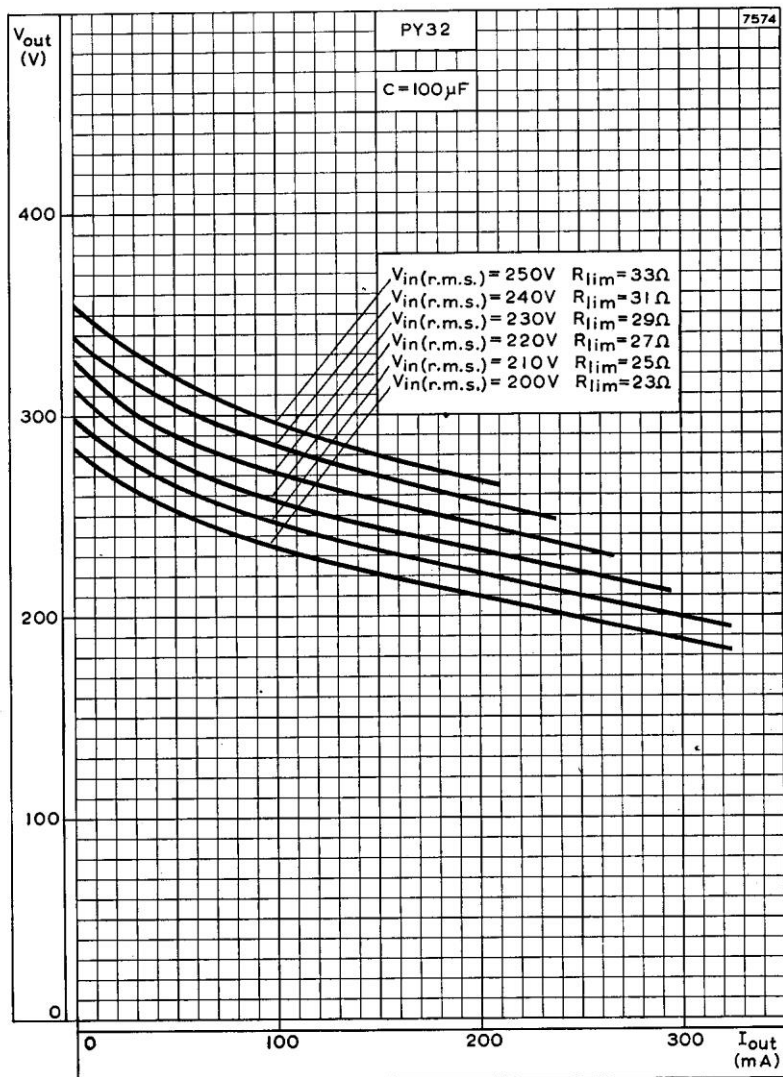




ANODE CURRENT PLOTTED AGAINST ANODE VOLTAGE

# PY32

## HALF-WAVE RECTIFIER



REGULATION CURVES

HALF-WAVE RECTIFIER

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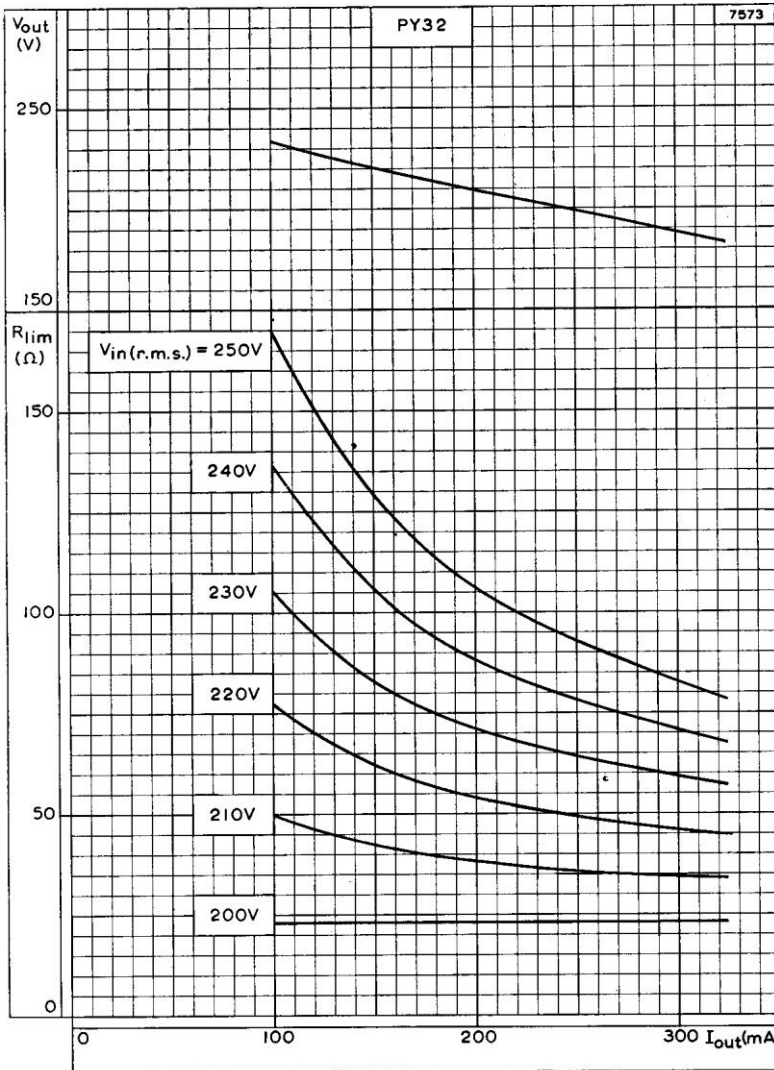


CHART FOR DETERMINING THE VALUE OF LIMITING RESISTOR REQUIRED TO GIVE CONSTANT OUTPUT VOLTAGE WITH VARIOUS INPUT VOLTAGES



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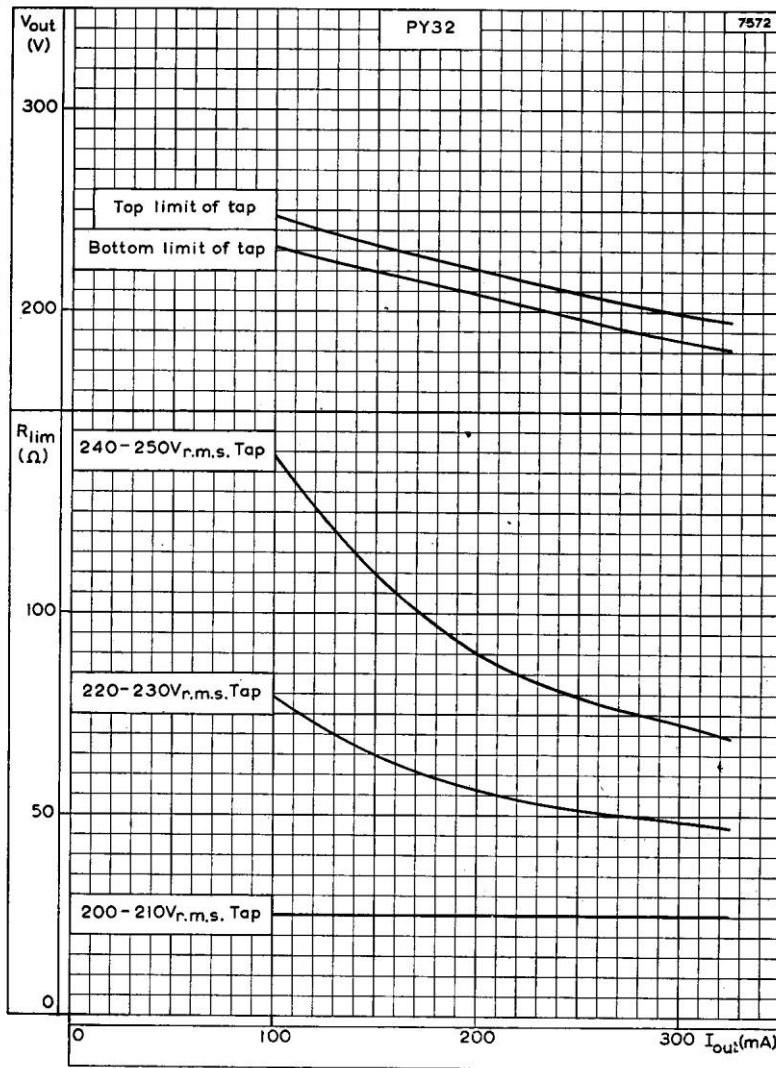


CHART FOR DETERMINING THE VALUE OF LIMITING RESISTOR REQUIRED FOR A RECEIVER USING THREE MAINS TAPS, AND RESULTANT SPREAD IN OUTPUT VOLTAGE