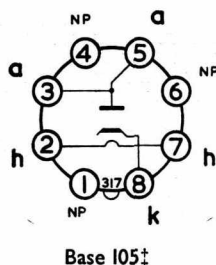


HALF-WAVE RECTIFIER



GENERAL

This indirectly heated half-wave rectifier is for use in television receivers employing series connected 0.3A heaters.

Heater Current	I_h	0.3	A
Heater Voltage	V_h	29.0	V

RATINGS

Maximum Peak Inverse Voltage	PIV_{max}	700	V
Maximum Anode Voltage (R.M.S.)	$V_a(r.m.s.)_{max}$	250	V
Maximum Mean Anode Current	$I_a(av)_{max}$	325	mA
Maximum Peak Anode Current	$i_a(pk)_{max}$	2.6	A
Maximum Surge Anode Current	$i_a(surge)_{max}$	9.5	A
Maximum Reservoir Capacitor	C_{max}	200	μF
Maximum Peak Heater to Cathode Voltage	$V_{h-k(pk)_{max}}$	625*	V

* Measured with respect to the higher potential heater pin.

Maximum D.C. component = 275V, Maximum A.C. component = 250V r.m.s.

TYPICAL OPERATION†

Input Anode Voltage (R.M.S.)	$V_{in(r.m.s.)}$	200	210	220	230	240	250	V
Output Current	I_{out}	325	325	295	270	240	220	mA
Reservoir Capacitor	C	200	200	200	200	200	200	μF
Minimum Surge limiting resistance	$R_{lim(min)}$	15	17	19	21	23	25	Ω
Output Voltage	V_{out}	209	219	234	249	264	280	V

† For television receiver conditions see curves.

MOUNTING POSITION—Unrestricted.

‡ Some PY33 valves may have an 107 base having pins 1 and 6 : NC.

