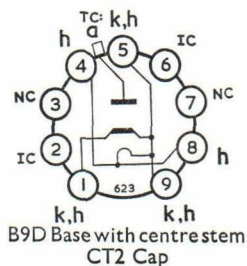


E.H.T. RECTIFIER



GENERAL

This e.h.t. half-wave rectifier is for use in colour television receivers. It has a chemically treated envelope to avoid flash-over under conditions of high humidity and low atmospheric pressure (45 cm Hg).

Heater Voltage	V_h	3.15* V
Heater Current	I_h	0.4 A

* The nominal heater voltage value applies to operation with the average beam current to be expected in practice. Heater voltage variations up to maximum $\pm 15\%$ are permitted for a nominal valve under the worst probable conditions.

ABSOLUTE RATINGS

Maximum Peak Inverse Voltage	P.I.V.-max	35†	kV
Maximum Output Voltage	$V_{out(max)}$	27.5	kV
Maximum Anode Current	$I_{a(out)max}$	1.7‡	mA

† The negative peak due to ringing in the line output transformer should be taken into account. Maximum pulse duration 22% of one cycle with a maximum of 18 μs .

‡ Design centre rating.

INTER-ELECTRODE CAPACITANCE

Anode to Heater and Cathode	$C_{a-h, k}$	1.2	pF
-----------------------------	--------------	-----	----

TYPICAL OPERATION

Output Voltage	V_{out}	25	kV
Anode Current	$I_{a(out)}$	1.5	mA

Notes

X-ray shielding may be required to give protection against excessive radiation.

Pins 1, 5 and 9 may be used to connect an anti-corona ring.

Circuit elements having the same potential as the heater, e.g. series resistor, may be connected to pins 3 and 7. These pins must not be earthed.

