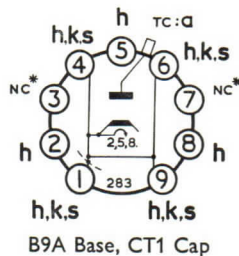


### HIGH VOLTAGE RECTIFIER



#### GENERAL

This high voltage half-wave rectifier is for use in television receivers employing line flyback E.H.T.

Heater Voltage	$V_h$	1.4† V
Heater Current	$I_h$	0.6 A

† Heater voltage tolerances:  $I_{out} < 200\mu A$ ,  $\pm 15\%$ ;  $I_{out} > 200\mu A$ ,  $\pm 7\%$ .

#### DESIGN CENTRE RATINGS

(The following ratings refer to normal television flyback E.H.T. operation.)

Maximum Inverse Voltage	$V_{inv(max)}$	20‡	kV
Maximum Peak Inverse Voltage	P.I.V. <sub>max</sub>	25§	kV
Maximum Peak Inverse Voltage (Absolute maximum)	P.I.V. <sub>max</sub>	30§	kV
Maximum Peak Anode Current	$i_a(pk)_{max}$	50	mA
Maximum D.C. Anode Current	$I_{out(max)}$	0.5	mA
Maximum Reservoir Capacitor	$C_{max}$	3000	pF

‡ D.C. component.

§ Maximum duration 22% of a line scanning cycle with a maximum of 18μs. The negative peak anode voltage due to ringing in the line output transformer must be taken into account.

|| During short periods as in T.V. operation,  $I_{out(max)} = 800\mu A$ .

#### INTER-ELECTRODE CAPACITANCE¶

Anode to Heater, Cathode and Shield	$C_{a-h,k,s}$	1.0	pF
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¶ In fully shielded socket, without can (I.E.C. Publication 100).

#### OPERATING CHARACTERISTICS

Output Current	$I_{out}$	200	μA
Output Voltage	$V_{out}$	20	kV

#### Notes

X-ray shielding is advisable to give protection against possible danger of personal injury arising from prolonged exposure at close range to this valve whilst it is in use at a P.I.V. in excess of 16 kV design centre.

Precautions must be taken to prevent corona discharge from the connections to this valve by ensuring that no sharp points or bends occur in the wiring and adequate spacing must be left between the valve and surrounding components.

\* Pins 3 and 7 may be connected to points in the heater circuit only and must not be earthed. No low potential circuits should be connected to any base pins.

Pins 1, 4, 6 and 9 may be used for fixing an anti-corona shield.

