

FERRANTI

HIGH VOLTAGE RECTIFIER

An indirectly heated miniature high voltage, half wave rectifier, designed for providing the E.H.T. supply in Television Receivers. The low heater wattage makes it particularly suitable for operation from line time base fly-back pulses, and the flexible leads facilitate mounting on or near the line output transformer.

6X2

PHYSICAL DETAILS.

Base	...	...	...	Flexible leads.
Max. Overall Length (excl. leads)	...	...	...	54 mm. (2 $\frac{1}{2}$ in.)
Max. Diameter	...	...	...	14.5 mm. ($\frac{1}{2}$ in.)
*Mounting Position	...	...	...	Any.

HEATER.

Heater Voltage	...	...	...	6.3 volts.
Heater Current	...	...	...	0.09 amp.
Heater Voltage Tolerance	...	...	...	
For $I_{out} < 200 \mu A$	...	...	...	$\pm 15\%$
For $I_{out} = 500 \mu A$	...	...	...	$\pm 7\%$

RATINGS.

- Sinusoidal Input (50 c/s.)

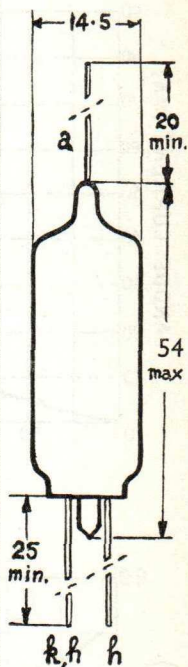
Max. r.m.s. Input Voltage	5.0 kV.
Max. Rectified Current	3.0 mA.
Max. Reservoir Capacitor	0.1 μF .
Min. Supply Impedance	100 k Ω
- Sinusoidal Input (10 kc/s. to 500 kc/s.).

Max. P.I.V.	17 kV.
Max. Rectified Current	3.0 mA.
Max. Reservoir Capacitor	0.01 μF .
- Pulse Input

Max. P.I.V.	17 kV.
Max. Rectified Current	350 μA .
†Max. Peak Cathode Current	80 mA.
Max. Reservoir Capacitor	5000 pF.

CAPACITANCE.

C_{a-k}	...	...	...	0.8 pF.
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All Dimensions shown are in millimetres.



*Connections should not be soldered to the leads at any point less than 10 mm. from the seal, nor should the leads be bent near to the seal.

†Max. pulse duration 5% of the time between 2 pulses with a maximum duration of 5 μ secs.

6X2



TYPICAL CHARACTERISTICS

