

# FERRANTI HALF WAVE RECTIFIER

An indirectly heated, high vacuum half wave rectifier. It is designed for use in applications where shock and vibration are encountered.

## PHYSICAL DETAILS.

Base	... ..	UX-4 Pin.
Bulb	... ..	Clear.
Max. Overall Length	... ..	115 mm. ( $4\frac{1}{2}$ in.).
Max. Seated Height	... ..	99 mm. ( $3\frac{3}{8}$ in.).
Max. Diameter (Bulb)	... ..	40 mm. ( $1\frac{1}{8}$ in.).
Anode Cap	... ..	CT <sub>2</sub> .
Mounting Position	... ..	Any.

## BASE CONNECTIONS.

Pin 1—Heater.	Pin 3—No Connection
Pin 2—No Connection	Pin 4—Heater, Cathode.
Top Cap—Anode.	

## HEATER.

Heater Voltage	... ..	2.5 volts.
Heater Current	... ..	1.75 amps.

## RATINGS.

Max. P.I.V.	... ..	12.5 kV.
Max. Peak Anode Current	... ..	60 mA.
Max. Rectified Current	... ..	7.5 mA.
†Max. Hot Switching Transient Current	... ..	100 mA.
Max. Ambient Temperature	... ..	70 °C.

## TYPICAL OPERATION.

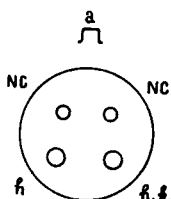
### Capacitor Input Filter.

R.M.S. Input Voltage	... ..	5.5 kV.
Min. Supply Impedance	... ..	300,000 ohms.
Filter Input Capacitor	... ..	0.1 μF.
Rectified Current	... ..	2.0 mA.
*DC. Output Voltage	... ..	4.5 kV.

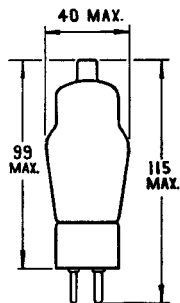
\*At input to filter.

†Maximum duration 200 milliseconds.

**2X2A**



**Base  
Connections  
Underside View  
of Base**



All dimensions shown are in millimetres (max.).



2X2A

