

FERRANTI

SATURATED EMISSION DIODE

A directly heated tungsten filament diode, intended for operation with temperature limited emission. The large change in anode current resulting from a small change in filament voltage, and the stability of the valve, make it suitable for use as a control in stabiliser circuits.

PHYSICAL DETAILS.

Base	...	...	...	International Octal.
Max. Overall Length	...	...	...	81 mm. ($3\frac{1}{8}$ in.).
Max. Seated Height	...	...	...	65 mm. ($2\frac{5}{8}$ in.).
Max. Diameter	...	...	...	33 mm. ($1\frac{1}{8}$ in.).
Mounting Position	...	...	...	Any.

BASE CONNECTIONS.

Pin 1—Not connected.	Pin 5—Anode.
Pin 2—Filament.	Pin 6—Not connected.
*Pin 3—Jumper.	Pin 7—Filament.
*Pin 4—Jumper.	Pin 8—Not connected.

RATINGS.

Max. Filament Voltage	...	...	1.8 volts.
Max. Anode Voltage	...	...	500 volts.
Min. Anode Voltage to ensure saturation	...	...	100 volts.

CHARACTERISTICS.

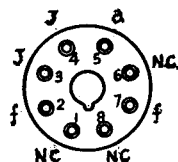
Filament Current (at 1.8 volts)	330 mA.
Anode Current (at $V_f = 1.8$, $V_a = 500$)	0.65 mA.

TYPICAL OPERATION.

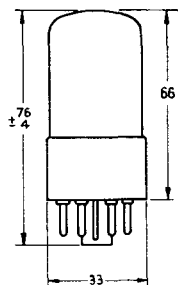
Anode Current (saturated)	...	0.3 mA.
Filament Voltage	...	1.65 volts (approx.).
Filament Current	...	320 mA. (approx.).
Minimum anode voltage	...	100 volts.
Maximum anode voltage	...	500 volts.

*The "jumper" link in the base is a short circuit between pins 3 and 4 and with suitable circuit connections operates as a switch to render the equipment inoperative when the valve is removed from its holder.

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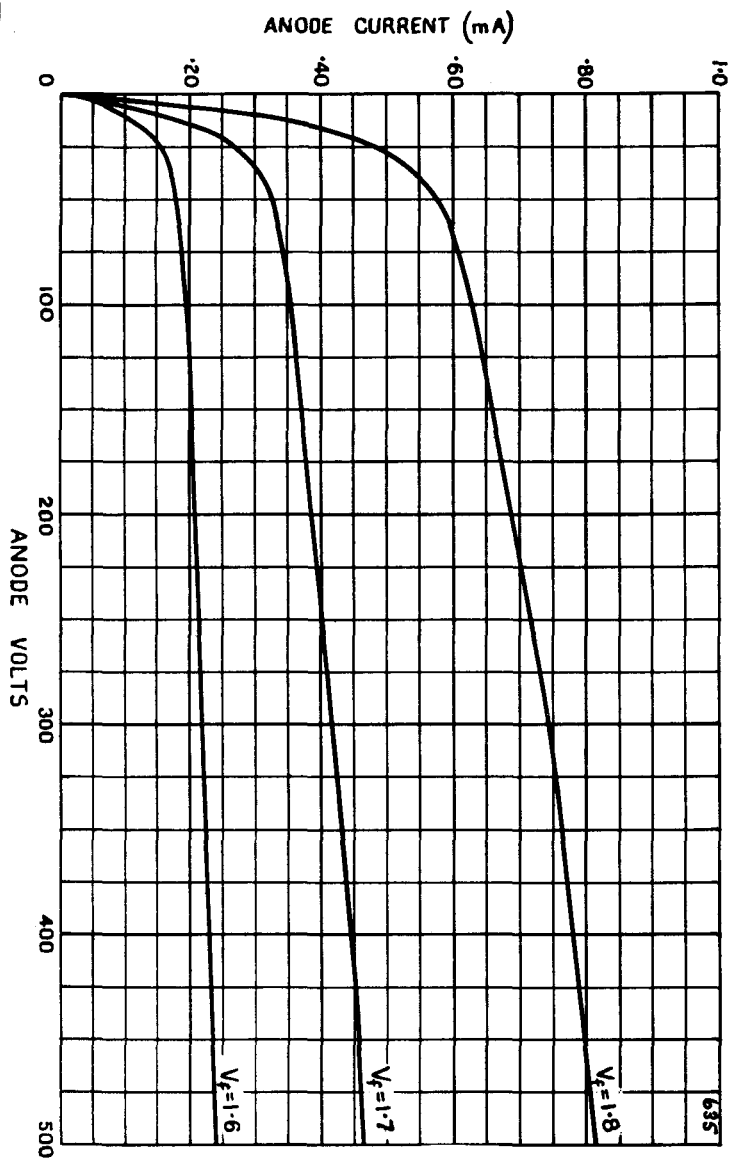
Base
Connections
Underside View
of Base



All dimensions
shown are in
millimetres
(max.)



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