

FERRANTI

FULL WAVE RECTIFIER

An indirectly heated half wave rectifier with a 0.3 amp. heater designed for series connected heater operation.

PHYSICAL DETAILS.

Base	...	...	...	B9A—Noval.
Max. Overall Length	...	...	...	78.5 mm. ($3\frac{1}{2}$ ins.).
Max. Seated Height	...	...	...	71.5 mm. ($2\frac{1}{2}$ ins.).
Max. Diameter	...	...	...	22.2 mm. ($\frac{7}{8}$ in.).
Mounting Position	...	...	...	Any.

BASE CONNECTIONS.

Pin 1—Internal Connection.	Pin 5—Heater.
Pin 2—Internal Connection.	Pin 6—Internal Connection.
Pin 3—Cathode.	Pin 7—Internal Connection.
Pin 4—Heater.	Pin 8—Internal Connection.
Pin 9—Anode.	

HEATER.

Heater Current	...	...	...	0.3 amps.
Heater Voltage	...	...	...	19 volts.

RATINGS.

Max. Peak Inverse Voltage	...	700 volts.
Max. R.M.S. Anode Voltage	...	250 volts.
Max. Rectified Current	...	180 mA.
*Max. V_{h-k} (pk) (Heater negative)	...	550 volts.
†Max. Reservoir Capacitor	...	60 μ F.
Min. Limiting Resistance :—		
V_a (r.m.s.) = 250	...	100 ohms.
= 240	...	80 ohms.
= 230	...	60 ohms.
= 220	...	40 ohms.
= 200	...	30 ohms.

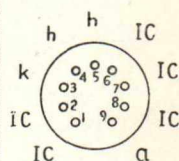
TYPICAL OPERATING CONDITIONS.

R.M.S. Input Voltage per Anode ...	200	220	240	250 volts.
Rectified Current ...	180	180	180	180 mA.
Supply Impedance per Anode ...	30	65	105	125 ohms.
Reservoir Capacitor	60	60	60	60 μ F.
DC. Output Voltage	195	195	195	195 volts.

*Mains voltage of not more than 220 V. r.m.s., plus a maximum DC. component of 250 volts.

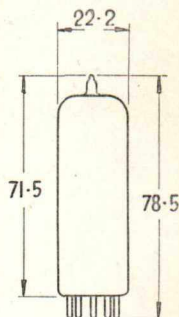
†For two PY82 in parallel the max. Reservoir Capacitor is 100 μ F., but each anode must have the minimum specified limiting resistance.

19Y3



Base Connections

Underside View of Base



All dimensions shown are in millimetres.



19Y3

