

Osram Valves

Made in England.

TYPE U30 UNIVERSAL RANGE RECTIFIER (With Indirectly Heated Cathode).



Maximum Dimensions :
Overall length (including pins)
145 m/m.
Maximum diameter of bulb
57 m/m.

The OSRAM U30 is an Indirectly Heated Rectifier fitted with a 0.3 amp. 26 volt heater, thus making it suitable for wiring in series with other 0.3 ampere valves in a Universal A.C.-D.C. receiver. The valve may be used under the following conditions :

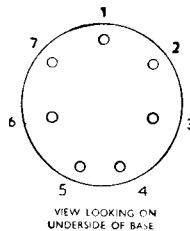
- 1—As a half wave rectifier with cathodes in parallel and anodes in parallel.
- 2—As a voltage doubling rectifier.
- 3—As a full wave rectifier.

As a half wave rectifier for D.C.-A.C. Receivers.
The two anodes should be connected by strapping pins 2 and 7 on the base. In the case of an A.C. mains supply the valve then functions as a half wave rectifier, the cathode being at the positive voltage of the rectified feed. When used on a D.C. supply the U30 merely functions as a resistance in H.T. feed.

CHARACTERISTICS

Heater Current	.. .. .	{ 0.3 amp.	or	{ 0.6 amp.
Heater Volts	.. .. .	{ 26		{ 13
Anode Volts R.M.S. (each anode)	.. .. .	.. .. .		.. 250 max.
As Half-Wave Rectifier (Anodes in parallel).				
Rectified Current D.C...	.. .. .	.. .. .	.. .. .	120 m.a. max.
	(Smoothed with 8-32 mfd. condenser)			
As Voltage Doubler.				
Rectified Current D.C...	.. .. .	.. .. .	.. .. .	75 m.a.
	(Smoothing condensers 8 mfd. each in series)			
As Full-Wave Rectifier.				
Rectified Current D.C...	.. .. .	.. .. .	.. .. .	120 m.a.
	(Smoothed with 4 mfd. condenser).			

For prices see
pages 126-129.



BASE, 7-PIN.

- 1 : Heater Centre Tap
- 2 : Anode₁
- 3 : Cathode₁
- 4 : Heater
- 5 : Heater
- 6 : Cathode₂
- 7 : Anode₂

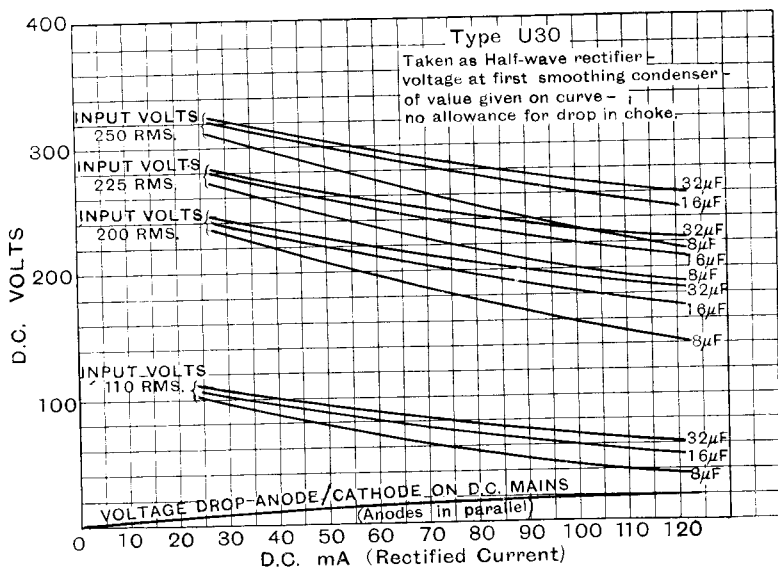
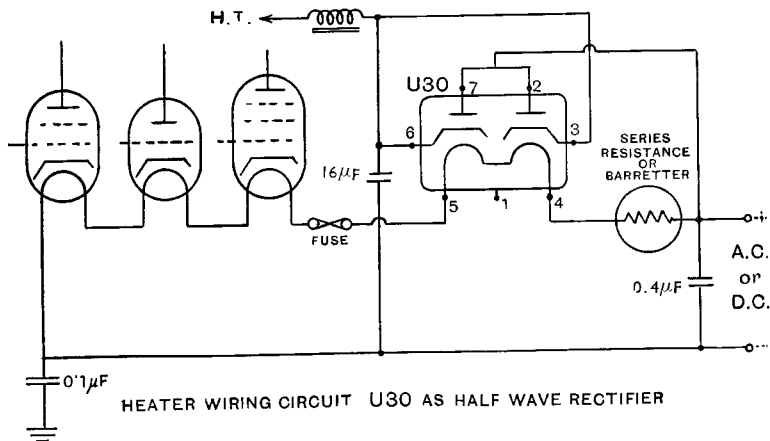
OPERATING CONDITIONS.

As Half-Wave Rectifier (Anodes in parallel).

Anode Volts (A.C. Input R.M.S.)	Rectified Current m.a.	*Output Volts	Drop Across Rectifier. Volts. (For D.C. condition)
250	120	250	—
200	120	172	20
	60	212	13

* With 16 mfd. condenser and neglecting voltage drop across smoothing chokes.

TYPE U30



CHARACTERISTIC CURVES OF AVERAGE VALVE.