Osram
VALVES

U19 RECTIFIER

DESCRIPTION

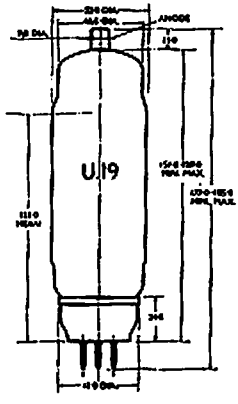
Type U19 is a hard vacuum directly heated half-wave rectifier having an oxide coated filament.

It is capable of giving an output up to 500mA for a pair of valves used in a bi-phase half-wave circuit and is suitable for applied anode voltages up to 2,500v. When used under maximum rectified current conditions an inductor input to the filter circuit is recommended. Where the peak inverse voltage exceeds 5,000v. the filament should be switched on at least twenty seconds before the anode voltage is applied, otherwise direct switching of the filament and anode voltage is permissible for this valve.

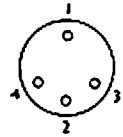
RATINGS

Filament voltage	4·0	volts
Filament current	3·3	approx. amps
	Single phase half-wave circuit	
Anode voltage R.M.S.	2,500	max. volts
Peak inverse voltage	7,100	max. volts
Peak current	2·0	max. amps
D.C. output current	250	max. mA
Anode limiting resistance...	100	min. ohms
Reservoir Capacitor (for Capacitor Input Filter)	4	μF
Input Inductor (for Inductor Input Filter)	10	min. henries

DIMENSIONS



BASE



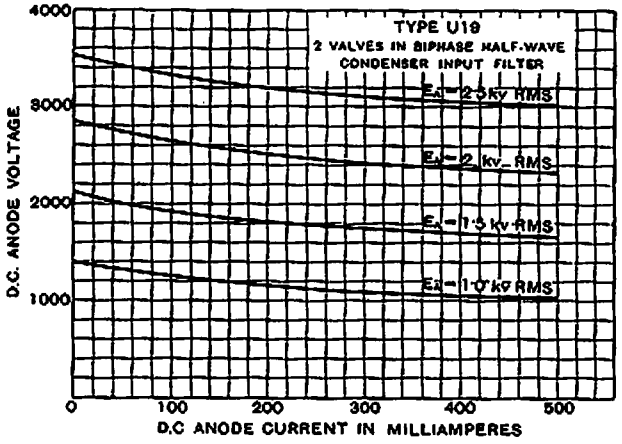
View looking on underside of base.

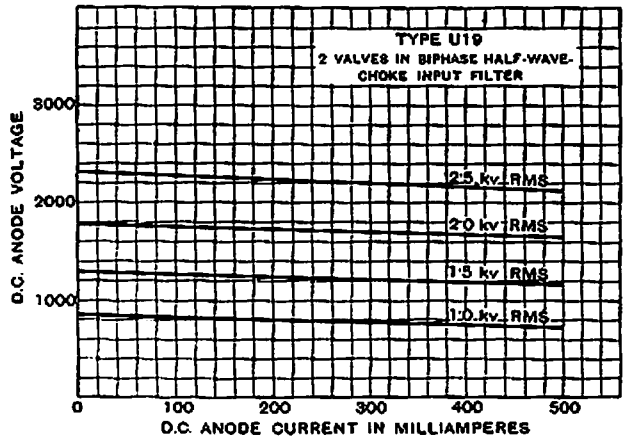
4-PIN

1: Not connected
2: Not connected
3: Filament
4: Filament
Top Cap. Anode

All dimensions are in mm. and are the maximum except where otherwise stated.

TYPE U19





CHARACTERISTIC CURVES OF AVERAGE VALVE.