

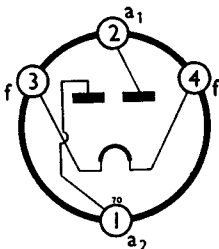


**BI-PHASE
HALF WAVE RECTIFIER
4V DIRECTLY HEATED**

U18/20

NOVEMBER, 1955

BASE CONNECTIONS AND VALVE DIMENSIONS



View from underside of base.

Base : British 4 pin.
 Bulb : Dome top tubular.
 Max. overall length : 135 mm.
 Max. seated length : 120 mm.
 Max. diameter : 56.5 mm.

FILAMENT

V_f	4.0	V
I_f	2.8	A

MAXIMUM RATING

PIV	2.4	kV
V_{in} (rms)	850	V
I_{out}	275	mA
i_a (pk)	750	mA
i_a (sur)	2.75	A

TYPICAL OPERATION

Single valve. Bi-phase half wave. Capacitor Input.

V_a (rms)	500	850	V
PIV	1.4	2.4	kV
V_{out}	520	1060	V
I_{out}	250	125	mA
i_a (pk)	750	400	mA
i_a (sur)	2.5	1.25	A
I_{ph} (rms)	265	132	mA
C	16	8	μF
R_{source}	180	180	Ω
Vripple	10	10	%

Single valve. Bi-phase half wave. Choke Input.

V_a (rms)	550	850	V
PIV	1.4	2.4	kV
V_{out}	405	690	V
I_{out}	275	150	mA
i_a (pk)	750	400	mA
I_{ph} (rms)	290	160	—
L	10	10	H
R_{source}	180	180	Ω
Vripple (before choke)	≈ 50	≈ 50	%

MOUNTING

Any position.

VENTILATION

Ample free air circulation should be allowed.

