



**MINIATURE
HALF WAVE RECTIFIER
1.4V DIRECTLY HEATED**

U37
APRIL, 1952

CONNECTIONS AND VALVE DIMENSIONS



Base : Wire leads

Bulb : Tubular.

Overall length : 43—48 mm.

Max. diameter : 13 mm.

Nom. length of all leads : 30 mm.

RATING

V_f	1.4	V
I_f	140	mA
PIV	15* max.	kV
I_{out}	2 max.	mA
i_a (pk)	12 max.	mA
i_a (sur)	40 max.	mA

* For conditions where the anode voltage rises at approximately the same rate as the filament voltage, e.g. in fly-back and R.F. oscillator EHT systems.

For applications where the full A.C. anode voltage is applied on switching, the PIV is limited to 10 kV.

CAPACITANCE

C_{a-f} 0.65 pF

TYPICAL OPERATION

Fly-back EHT Source

I_f (rms)	140	mA
PIV	7.5	kV
V_{out}	7	kV
I_{out}	100	μ A
C	0.001	μ F

R.F. Oscillator EHT Source

I_f (rms)	140	mA
PIV	15	kV
V_a (rms)	5.3	kV
V_{out}	7.5	kV
I_{out}	100	μ A

The filament should be operated at the same temperature as it would attain if operated at 1.4V D.C.

MOUNTING

Any position.





