



**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**

Ca-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	$\mu$ A
C	0.001	$\mu$ F

**R.F. Oscillator EHT Source**

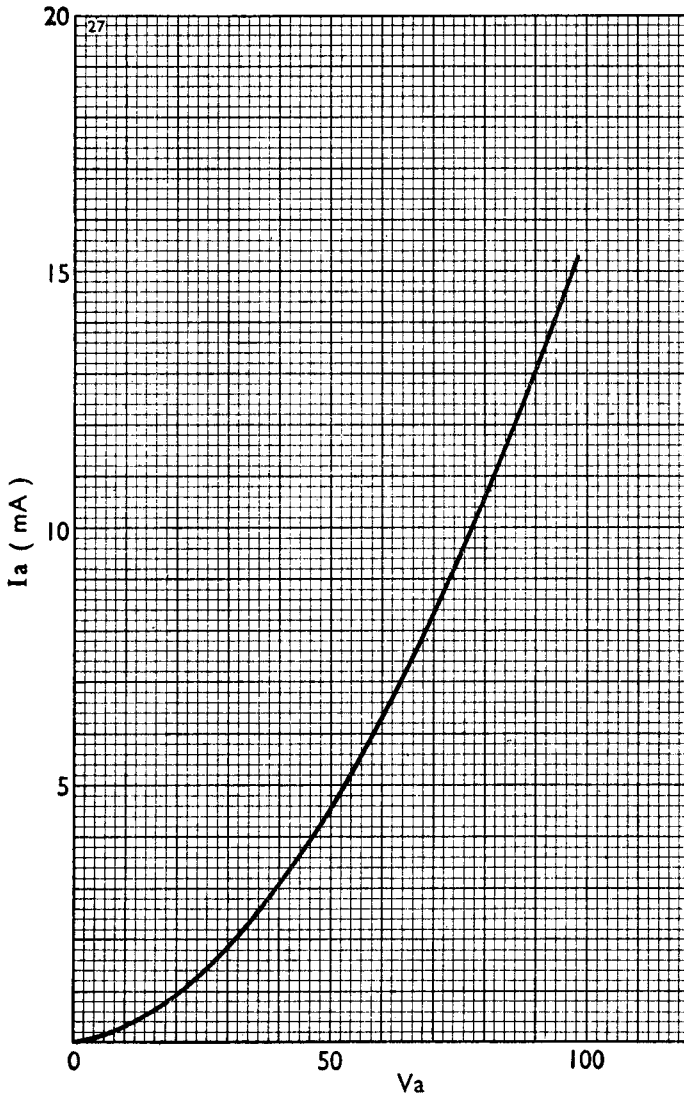
$I_f$ (rms)	140	mA
PIV	15	kV
$V_a$ (rms)	5.3	kV
$V_{out}$	7.5	kV
$I_{out}$	100	$\mu$ A

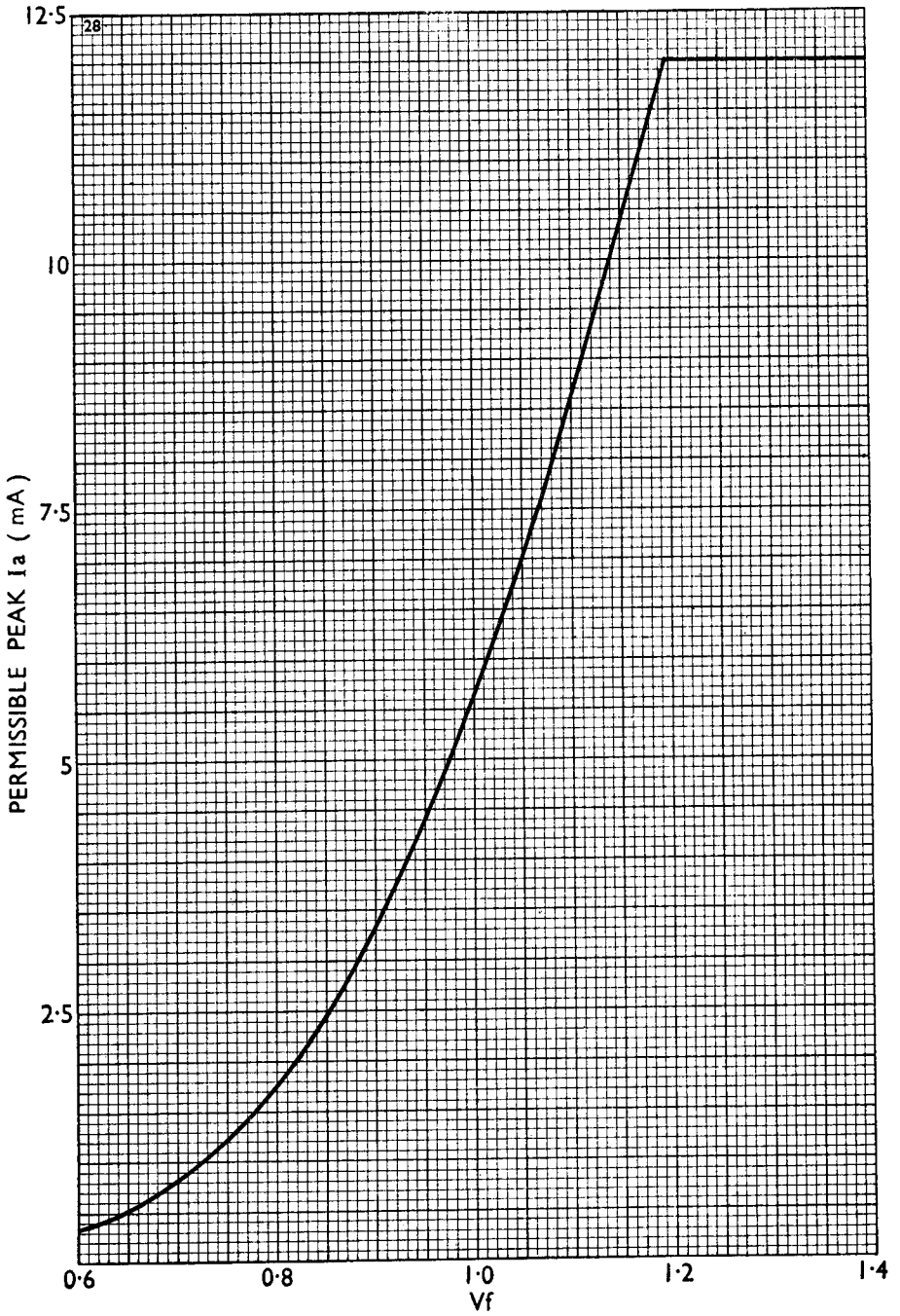
The filament should be operated at the same temperature as it would attain if operated at 1.4V D.C.

**MOUNTING**

Any position.

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