

# U78



## U78 RECTIFIER

### DESCRIPTION

Type U78 is an indirectly heated bi-phase half wave rectifier mounted on the miniature B7G all-glass base. The valve is interchangeable with the American type 6X4.

### RATINGS

Heater Voltage	...	...	...	...	...	6.3	volts
Heater Current	...	...	...	...	...	0.6	amp
Heater/Cathode Voltage	...	...	...	...	...	450	max. volts
Peak Inverse Voltage	...	...	...	...	...	1,250	max. volts
Anode Voltage R.M.S.	...	...	...	...	...	325	max. volts
D.C. Output Current	...	...	...	...	...	70	max. mA
Peak Anode Current	...	...	...	...	...	210	max. mA
Surge Anode Current	...	...	...	...	...	750	max. mA

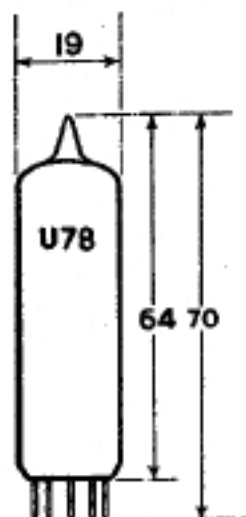
### OPERATING CONDITIONS

Capacitor input bi-phase half-wave circuit.

Heater Voltage	...	...	...	...	...	6.3	volts
Peak Inverse Voltage	...	...	...	...	...	930	volts
Input Voltage R.M.S.	...	...	...	...	...	325	volts
D.C. Output Voltage	...	...	...	...	...	355	volts
D.C. Output Current	...	...	...	...	...	70	mA
Peak Anode Current	...	...	...	...	...	210	mA
Surge Anode Current	...	...	...	...	...	700	mA
Phase Current R.M.S.	...	...	...	...	...	73	mA
Reservoir Capacitor	...	...	...	...	...	4	mfd
Source Resistance	...	...	...	...	...	450	ohms

Type of Switching	...	...	...	...	...	Direct
Mounting	...	...	...	...	...	Any position
Retaining	...	...	...	...	...	The use of a retaining device is recommended

### DIMENSIONS



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

### BASE

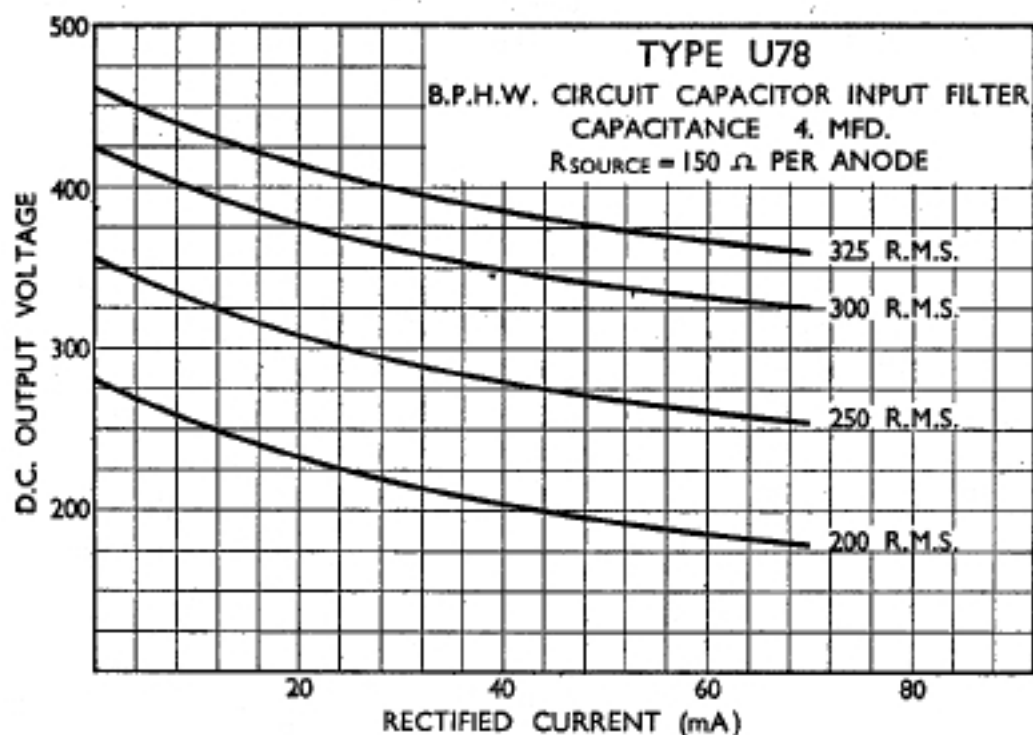


View looking on underside of base.

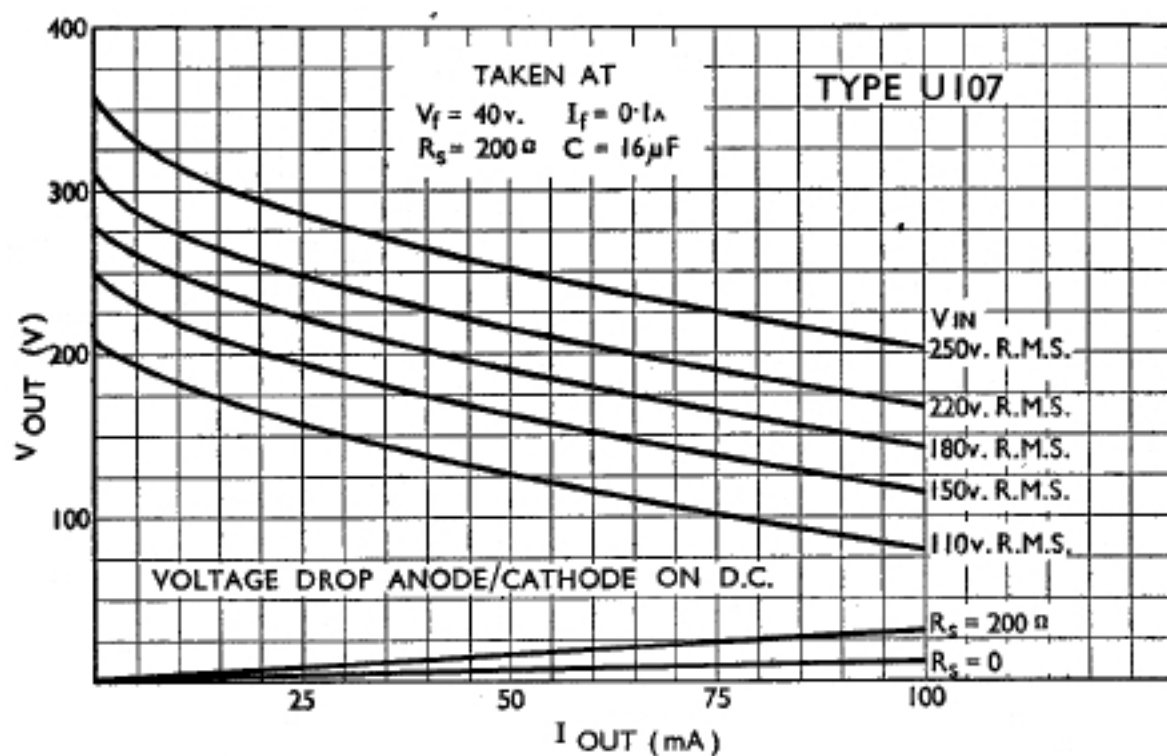
B7G	
Pin 1:	Anode, a'
2:	NC
3:	Heater
4:	Heater
5:	NC
6:	Anode, a'
7:	Cathode

See page 144 for Characteristic Curves.

## TYPE U78



## TYPE U107



$V_f$  = Heater voltage

$I_f$  = Heater Current

$R_s$  = Source resistance

$C$  = Reservoir Capacitance

CHARACTERISTIC CURVES OF AVERAGE VALVE.