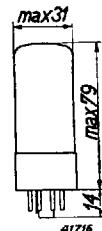


# UY 1 (N) Half-wave rectifier valve

The UY 1 (N) is an indirectly heated half-wave rectifier for use in AC/DC receivers with 100 mA series heater circuit. The internal resistance of this valve is very low and voltage losses are therefore only slight, this being a very great advantage when the receiver is to operate on 100 V mains. This rectifier is a new version of the UY 1 and differs from the UY 21 only in the base.



41716

Fig. 1 Dimensions in mm

## HEATER RATINGS

Heater feed: indirect by AC or DC; series supply.

Heater voltage . . . . .  $V_f = 50$  V

Heater current . . . . .  $I_f = 0.100$  A

## MAXIMUM RATINGS

Alternating anode voltage . . . . .  $V_i = \text{max. } 250$  V<sub>eff</sub>

D.C. output . . . . .  $I_o = \text{max. } 140$  mA

Voltage between filament and cathode . . . . .  $V_{fk} = \text{max. } 500$  V(peak)

Capacitance across input of smoothing filter . . . . .  $C = \text{max. } 60 \mu\text{F}^1)$



<sup>1</sup>) A resistance of which the minimum value is given in the following table must be included in the anode circuit to safeguard the valve.

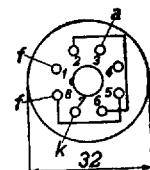


Fig. 2  
Arrangement of electrodes and contacts.

Mains voltage	Capacitance of smoothing condenser	Resistance to safeguard the valve
max. 250 V	60 $\mu\text{F}$	min. 175 Ohms
max. 250 V	32 $\mu\text{F}$	min. 125 Ohms
max. 250 V	16 $\mu\text{F}$	min. 75 Ohms
max. 250 V	8 $\mu\text{F}$	min. 0 Ohms
max. 170 V	60 $\mu\text{F}$	min. 100 Ohms
max. 170 V	32 $\mu\text{F}$	min. 75 Ohms
max. 170 V	16 $\mu\text{F}$	min. 30 Ohms
max. 127 V	60 $\mu\text{F}$	0 Ohms

