

# EDISWAN

## ESU101

### HALF-WAVE MERCURY VAPOUR RECTIFIER

### TENTATIVE

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#### GENERAL

The ESU101 is a directly heated high voltage half-wave mercury vapour rectifier, which has been designed for use in radio relay amplifiers.

#### RATING

|  |              |          |
|--|--------------|----------|
| Filament Voltage (volts)                 | $V_f$        | 4.0      |
| Filament Current (amps)                  | $I_f$        | 2.7      |
| Maximum Peak Inverse Voltage (kV)        | P.I.V.(max)  | 10.0     |
| Maximum Peak Anode Current (amps)        | $I_a(pk)max$ | 1.25     |
| Maximum Mean Anode Current(amps)         | $I_a(av)max$ | 0.25     |
| Voltage Drop (approx) (volts)            | $V_{drop}$   | 16       |
| Condensed Mercury Temperature Range (°C) |              | 20 to 60 |
| Heating Time (seconds)                   |              | 60       |

#### DIMENSIONS

|                           |       |                 |
|---------------------------|-------|-----------------|
| Maximum Overall Length    | (mm)  | 139             |
| Maximum Diameter          | (mm)  | 48              |
| Approximate Nett Weight   | (ozs) | 2               |
| Approximate Packed Weight | (ozs) | 3 $\frac{1}{4}$ |

MOUNTING POSITION Vertical, base downwards.

#### TYPICAL OPERATION

A Biphase Half Wave Rectifier using two valves can give an output of 500 mA at 3.2 kV.

#### NOTES

The H.T. supply to the anode should not be switched on until the specified filament heating time has elapsed. When newly installed or after a period of disuse the filament should be run at normal temperature for 15 minutes before the application of the H.T. voltage.

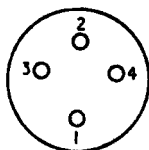
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BULB Clear.

BASE British 4 Pin (B4).



Viewed from free end of pins.

CAP  $\frac{11}{16}$  ins. diameter.

VALVEHOLDER EDISWAN CLIX VH300/4, VH42/4.

TOP CAP CONNECTOR EDISWAN CLIX TC434

CONNECTIONS

|         |               |    |
|---------|---------------|----|
| Pin 1   | No Connection | NC |
| Pin 2   | No Connection | NC |
| Pin 3   | Filament      | f  |
| Pin 4   | Filament      | f  |
| Top Cap | Anode         | a  |