ESU101
HALF-WAVE MERCURY VAPOUR RECTIFIER
TENTATIVE

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)	Vdrop	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 switch 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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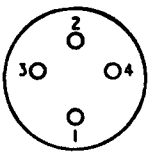
BULB Clear.

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

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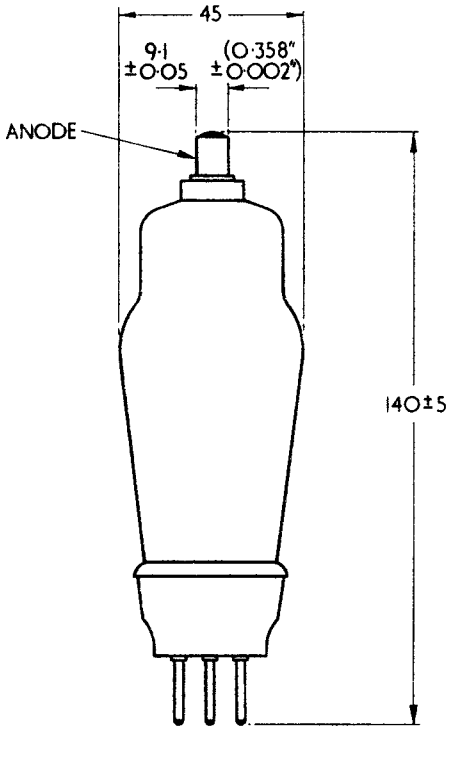

All Dimensions in mm unless stated otherwise.

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