

U381/UY85
HALF WAVE RECTIFIER
 Indirectly heated—for series operation



TENTATIVE

GENERAL

The U381/UY85 is a miniature based indirectly heated Half Wave Rectifier intended for use in AC/DC powered radio receivers having series connected heater chains.

RATING

Heater Voltage	(volts)	V_h	38.0
Heater Current	(amps)	I_h	0.1
Maximum Anode Voltage (r.m.s.)	(volts)	$V_a(\max)$	250 ←
Maximum DC Output Current (mA)		$I_a(\max)$	110
Maximum Peak Inverse Voltage (volts)		P.I.V. (max)	700
Maximum Reservoir Condenser (μF)			100
Minimum Surge Limiting Resistance	(ohms)		100
Maximum Heater to Cathode Voltage (DC + Peak AC)	(volts)	$V_{h-k}(\max)$	550*

* Cathode positive to heater.

DIMENSIONS

Maximum Overall Length	(mm)	67.5
Maximum Diameter	(mm)	22.2
Maximum Seated Height	(mm)	60.5
Approximate Nett Weight	(ozs)	$\frac{1}{2}$
Approximate Packed Weight	(ozs)	$\frac{3}{4}$

MOUNTING POSITION — Unrestricted

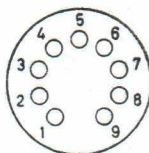
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TYPICAL OPERATION

D.C. Load Current	(mA)	I_a	110
A.C. Input Voltage (r.m.s.)	(volts)	$V_{in(rms)}$	250
D.C. Rectified Output Voltage	(volts)	V_{out}	245
Reservoir Capacity	(μF)		100
Surge Limiting Resistance	(ohms)		100

BASE – Noval (B9A)



Viewed from free end of pins

VALVE HOLDER

Ediswan Clix VH599/9, VH499/9 & VH19/9 series.

CONNECTIONS

Pin 1	Internal Connection	IC
Pin 2	Internal Connection	IC
Pin 3	Cathode	k
Pin 4	Heater	h
Pin 5	Heater	h
Pin 6	Internal Connection	IC
Pin 7	Internal Connection	IC
Pin 8	Internal Connection	IC
Pin 9	Anode	a

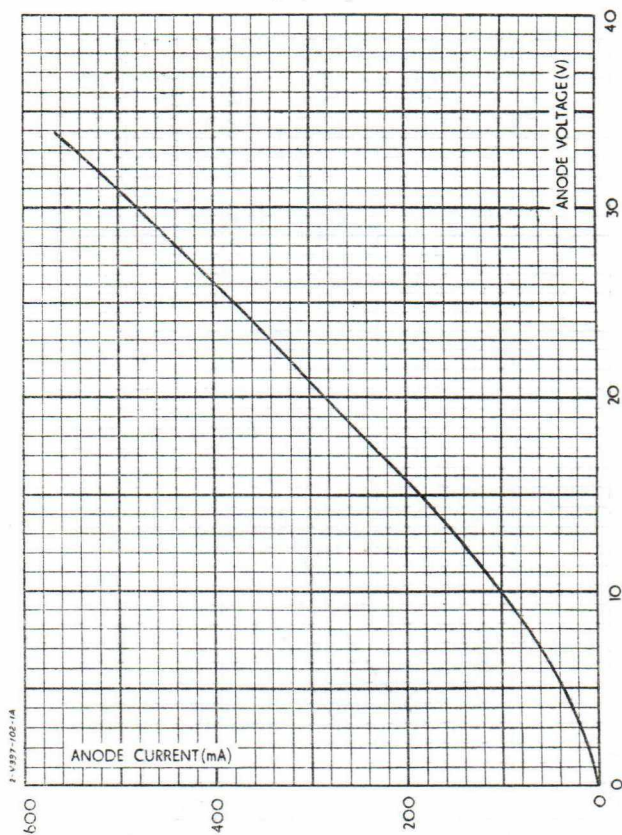
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CHARACTERISTIC CURVE: I_a/V_a



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CHARACTERISTIC CURVES: Regulation
 $C = 100\mu F$

