E.H.T. RECTIFYING TUBE

High-vacuum single-anode rectifying tube for high tension in television receivers (E.H.T. supply from the line time base)

The DY802 has a chemically treated envelope which avoids flash-over under conditions of high humidity and low atmospheric pressure (45 cm Hg).

HEATING: Indirect by A.C. or D.C.; parallel supply

Heater voltage Heater current $\frac{V_f}{I_f}$ 1.4 V $\frac{1.4 \text{ V}}{600 \text{ mA}}$

Tolerances of Vf

a. As E.H.T. rectifier in television receivers

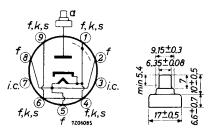
The heater voltage should be adjusted to its nominal value at a D.C. output current of 200 μ A. At an increase of the D.C. output current to 400-800 μ A which can incidentically occur during operation the decrease of the heater voltage may amount to max. 15%. These requirements hold for nominal mains voltage and full horizontal scanning of the picture tube. If the picture width control is such that also the heater voltage of the E.H.T. diode is influenced, the influence of this control must be kept within the 15% limit indicated above.

b. For all other applications the limits for the heater voltage are as given in the application directions.

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Noval





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REMARKS

- a. Pins 1, 4, 6 and 9 can be used for fixing an anti-corona ring.
- b. Circuit elements having the same potential as the heater (e.g. a series resistor) may be connected to pins 3 and 7. These pins must never be earthed.
- c. If the tube operates a high values of V_{ainvp} and/or under conditions of high relative humidity or low pressure the metal top-cap should get an insulating cover to avoid corona phenomena.

CAPACITANCE

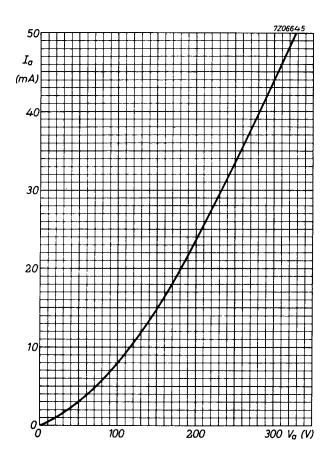
Anode to all	Ca	1.0	pF
OPERATING CHARACTERISTICS			
Output current	I_{0}	200	μΑ
Output voltage	v_o	20	kV

LIMITING VALUES (Design centre rating system unless otherwise stated)

Output voltage	v_{o}	max.	20	kV
Peak inverse voltage	$v_{a_{inv_{D}}}$	max.	25	kV 1)
Peak inverse voltage (Abs. max.)	$v_{a_{inv_{D}}}$	max.	3 0	kV 1)
Output current, average	Io	max.	500	μA ²)
peak	I_{op}	max.	50	mA
Filter input capacitance	C _{filt}	max.	3 000	pF

¹⁾ Max. duration 22% of a line scanning cycle and maximum 18 µs. The negative peak anode voltage due to ringing in the line-output transformer must be taken into account.

²) During short periods as in TV operation I_0 = max. 800 μ A.



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