SINGLE ANODE E.H.T. RECTIFYING TUBE

Single anode E.H.T. rectifying tube intended for use in colour television receivers.
The GY501 has a chemically treated envelope to avoid flash-over under conditions of high humidity and low atmospheric pressure (45 cm Hg).

QUICK REFERENCE DATA			
D.C. output voltage	V_o	25	kV
Anode current	I_a	1.5	mA

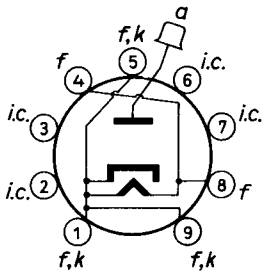
HEATING: Indirect by A.C. or D.C.; parallel supply

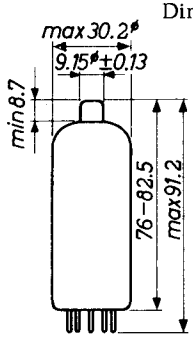
Heater voltage	V_f	3.15	V [1]
Heater current	I_f	400	mA

DIMENSIONS AND CONNECTIONS

Dimensions in mm

Base: Magnoval





Pins 1, 5 and 9 may be used to connect an anti-corona ring.

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.

Precaution: X-ray shielding may be required to give protection against excessive radiation.

[1]) Under nominal operating conditions and with the longterm average value of I_a to be expected in practice, V_{fRMS} should be 3.15 V.
The heater voltage deviation resulting from spread or variation of operating conditions should be limited to the values indicated by the diagram in fig.A.

CAPACITANCES

Anode to cathode	C_{ak}	1.2	pF

OPERATING CHARACTERISTICS

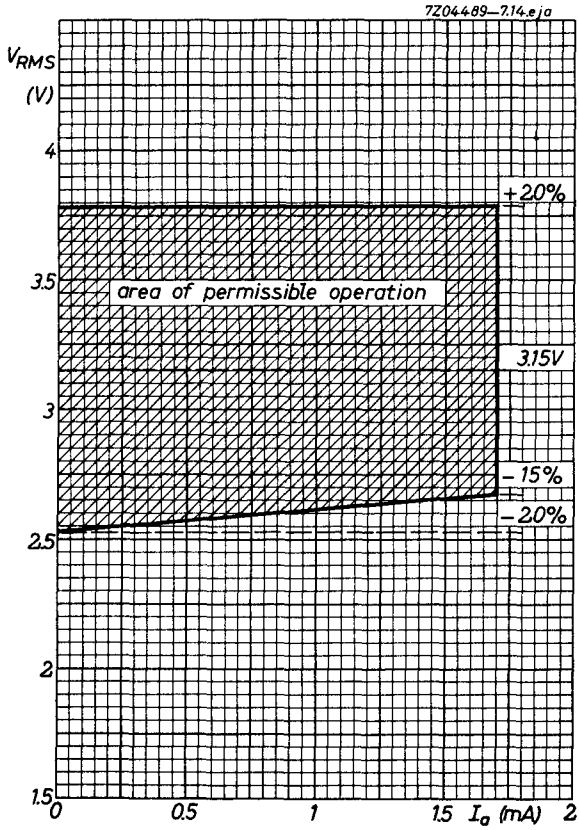
Output voltage	V_o	25	kV
Anode current	I_a	1.5	mA

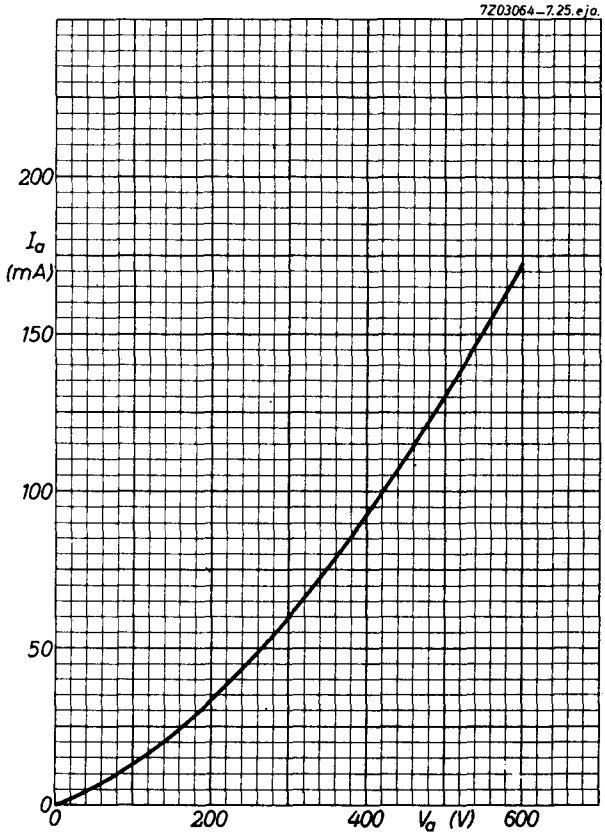
LIMITING VALUES (Design centre rating system)

Peak inverse voltage (absolute max.)	V_{ainv_p}	max.	35	kV [1]
Output voltage (absolute max.)	V_o	max.	27.5	kV
Output current, average	I_o	max.	1.7	mA
peak	I_{op}	max.	100	mA [2]

[1]) The negative peak due to ringing in the line output transformer should be taken into account.
Max. pulse duration 22% of a cycle and 18 μs.

[2]) Design max. rating system
Max. pulse duration 10% of a line scanning cycle with a max. of 10 μs.


7Z04489—7.14.ejo
V_{RMS}
(V)
4
3.5
3
2.5
2
1.5
0
0.5
1
1.5
I_a (mA)
2
+2.0%
area of permissible operation
3.15V
−15%
−2.0%


7Z03064-7.25.ejo.
200
I_a
(mA)
150
100
50
0
0
200
400
V_a (V)
600

PHILIPS

Data handbook

Electronic components and materials

GY501

page	sheet	date
1	1	1969.12
2	2	1969.12
3	3	1969.12
4	4	1969.12
5	FP	1999.08.07