BOOSTER DIODE

Booster diode intended for use in line time-base circuits of transformerless television receivers.

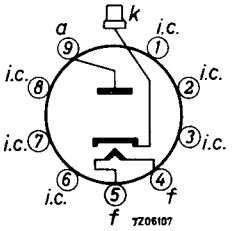
QUICK REFERENCE DATA		
Anode current, peak	I_{ap}	max. 550 mA
Anode voltage, negative peak	$-V_{ap}$	max. 6000 V
Cathode to heater voltage, peak	V_{kfp}	max. 6600 V

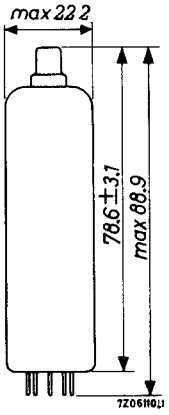
HEATING: Indirect by A.C. or D.C.; series supply

Heater current	I_f	300 mA
Heater voltage	V_f	30 V

DIMENSIONS AND CONNECTIONS Dimensions in.mm

Base: Noval
Top cap: Type 1





CAPACITANCES

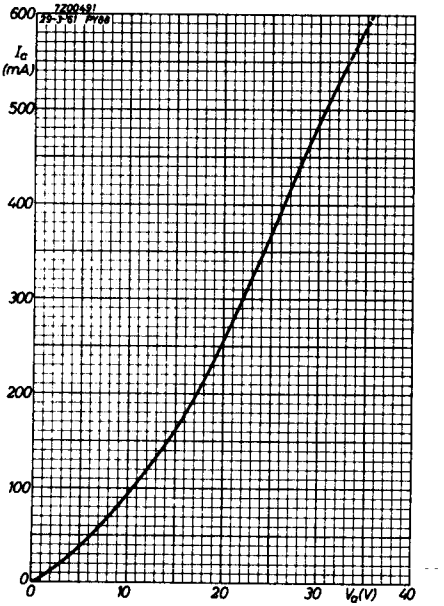
Anode to all	C_a	8.6 pF
Cathode to heater	C_{kf}	2.7 pF

LIMITING VALUES (Design centre rating system unless otherwise specified)

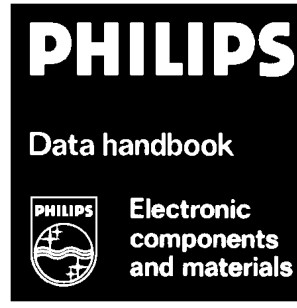
Supply voltage	V_{b_o}	max.	550	V
	V_b	max.	250	V
Anode dissipation	W_a	max.	5	W
Anode current, average	I_a	max.	220	mA
peak	I_{a_p}	max.	550	mA
Anode voltage, negative peak	$-V_{a_p}$	max.	6000	V [1]
negative peak (absolute max.)	$-V_{a_p}$	max.	7500	V [1]
Cathode to heater voltage, peak	V_{kf_p}	max.	6600	V [1]
Heater to earth voltage	$V_{f/earth}$	max.	220	V_{RMS}

Series resistance heater chain

During operation, the external resistance between either heater pin of the PY88 and either mains terminal should be at least 80 Ω when Vf/earth = 220 V_{RMS}
40 Ω when Vf/earth = 110 V_{RMS}
The hot heater resistances of other tubes in the heater chain can serve for this purpose.



[1]) Max. pulse duration 22% of a cycle but maximum 18 μs.



PY88

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1	1	1970.08
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3	FP	1999.08.03