

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_{kf_p}	max. 6600 V

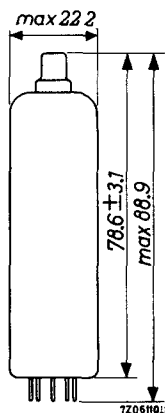
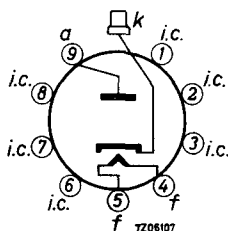
HEATING: Indirect by A.C. or D.C.; series supply

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

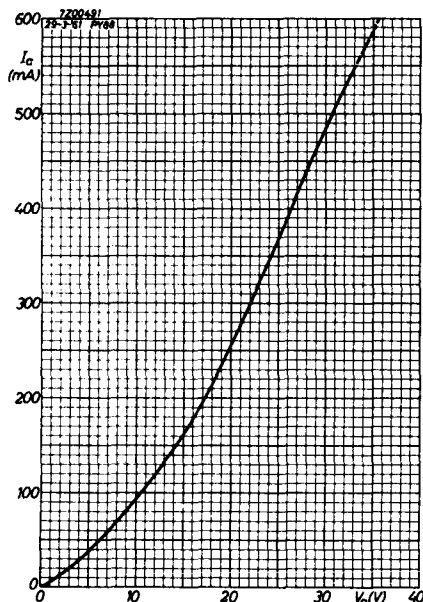
LIMITING VALUES (Design centre rating system
unless otherwise specified)

Supply voltage	V_{b0}	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_{ap}	max. 550 mA
Anode voltage, negative peak	$-V_{ap}$	max. 6000 V ¹⁾
negative peak (absolute max.)	$-V_{ap}$	max. 7500 V ¹⁾
Cathode to heater voltage, peak	V_{kfP}	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 $V_{f/earth} = 220$ V_{RMS}
40 Ω when $V_{f/earth} = 110$ 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 μ s.

PHILIPS

Data handbook



**Electronic
components
and materials**

PY88

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FP

date

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