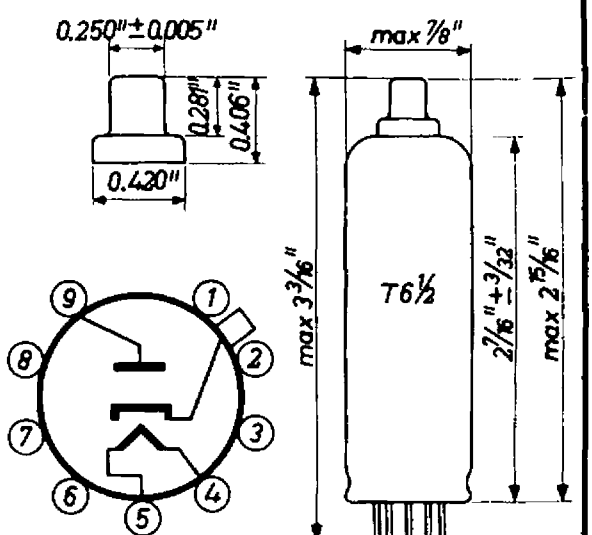
PHILIPS 17 Z 3

BOOSTER DIODE for time base circuits in AC/DC television receivers

PHYSICAL SPECIFICATIONS

Cathode	Coated unipotential
Base	Small button noval 9-pin
Maximum overall length	3 3/16 inches
Maximum seated height	2 15/16 inches
Bulb length excluding tip	2 7/16 ±3/32 inches
Maximum diameter	7/8 inch
Mounting position	any
Basing connections - JETEC basing designation	9 CB

1 - Not to be connected
2 - Not to be connected
3 - Not to be connected
4 - Heater
5 - Heater
6 - Not to be connected
7 - Not to be connected
8 - Not to be connected
9 - Plate
Top cap - Cathode



GENERAL ELECTRICAL DATA

Heater voltage	17 volts
Heater current	0.3 ampere

MAXIMUM RATINGS for use as primary booster (design center values)

Positive voltage between cathode and heater	4500 volts (peak voltage [1])) + 220 volts (r.m.s., L.F.)
Plate current	150 m amps
Peak plate current	450 m amps
Booster condenser	4 µF

[1]) Max. pulse duration 18% of a cycle with a max. of 18 microseconds. Absolute maximum 5600 volts.

17 Z 3 PHILIPS

MAXIMUM RATINGS (design center values)		
Plate current		150 m amps
Peak plate current		450 m amps
Booster capacitor		4 μF
<u>During the flyback</u>		
Peak voltage between cathode and heater (cathode positive)	ø	4500 volts
Peak voltage between cathode and plate (cathode positive)	ø	4500 volts
Peak voltage between heater and plate (heater positive)	ø	3000 volts
<u>During the scanning</u>		
Peak voltage between cathode and heater (cathode positive)		800 volts
Voltage between cathode and heater (cathode positive; averaged over the scan)		500 volts

ø Max. pulse duration 18% of a cycle with a max. of 18 microseconds.

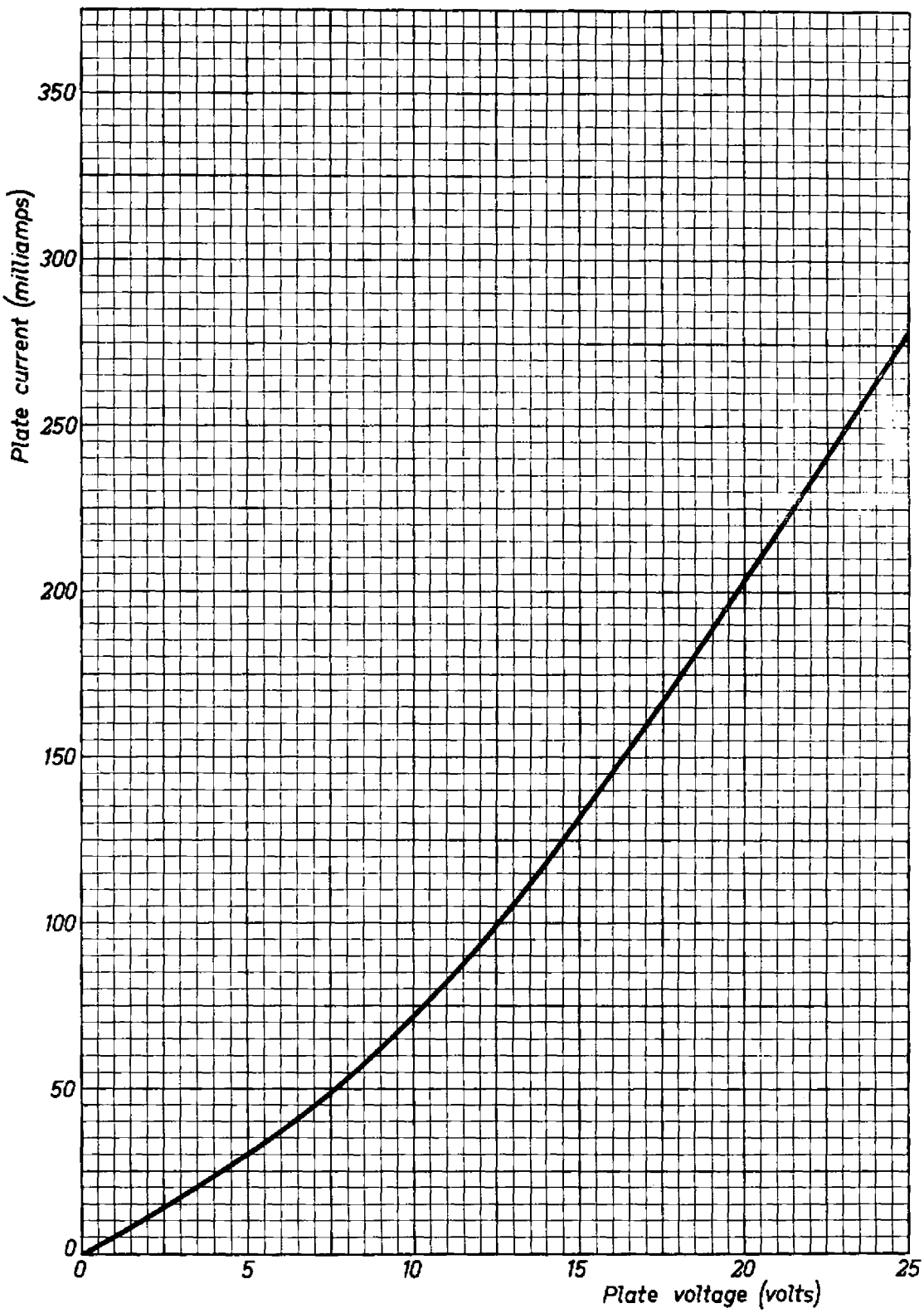


Plate current (milliamps)
350
300
250
200
150
100
50
0
0
5
10
15
20
25
Plate voltage (volts)