from JETEC release #1699, July 30, 1956
sponsor: Rogers Electronic Tubes, Toronto, Canada

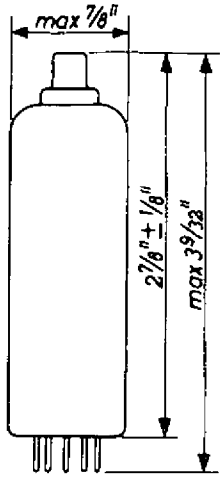
6R3

BOOSTER DIODE for time base circuits in television receivers

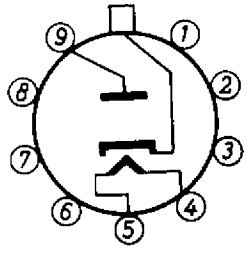
MECHANICAL DATA

Cathode	Coated unipotential
Base	E9-1
Bulb	T6½
Top cap	C1-2
RETMA basing designation	9 CB
Mounting position	Any

TUBE OUTLINE



BOTTOM VIEW OF BASE



BASE PIN No	ELEMENT
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

ELECTRICAL DATA

Heater data

Heater voltage	6.3 volts
Heater current	0.81 amp

DIRECT INTERELECTRODE CAPACITANCES

Plate to all other elements	6.4 μμF
Heater to cathode	2.5 μμF

MAXIMUM RATINGS (Design center values)

Plate current	150 mamps
Peak plate current	450 mamps
Booster condenser	4 μF
Voltage between heater and cathode	600 volts[1])
During flyback	
Peak voltage between cathode and heater (cathode positive)	4500 volts[2])[4])
Peak voltage between cathode and plate (cathode positive)	4500 volts[2])[4])
Peak voltage between heater and plate (heater positive)	3000 volts[3])[4])

Remark: With regard to the long heating time of the 6R3 it is advisable to take measures that the screen grid dissipation of the tubes that derive their plate voltage from the booster is not exceeded during this heating time.

---

[1])Cathode positive with respect to heater. Averaging time max. 1 cycle of the line time base

[2])Absolute maximum value 5600 volts

[3])Absolute maximum value 3800 volts

[4])Max. pulse duration 18% of one cycle of the line time base with a max. of 18 microseconds

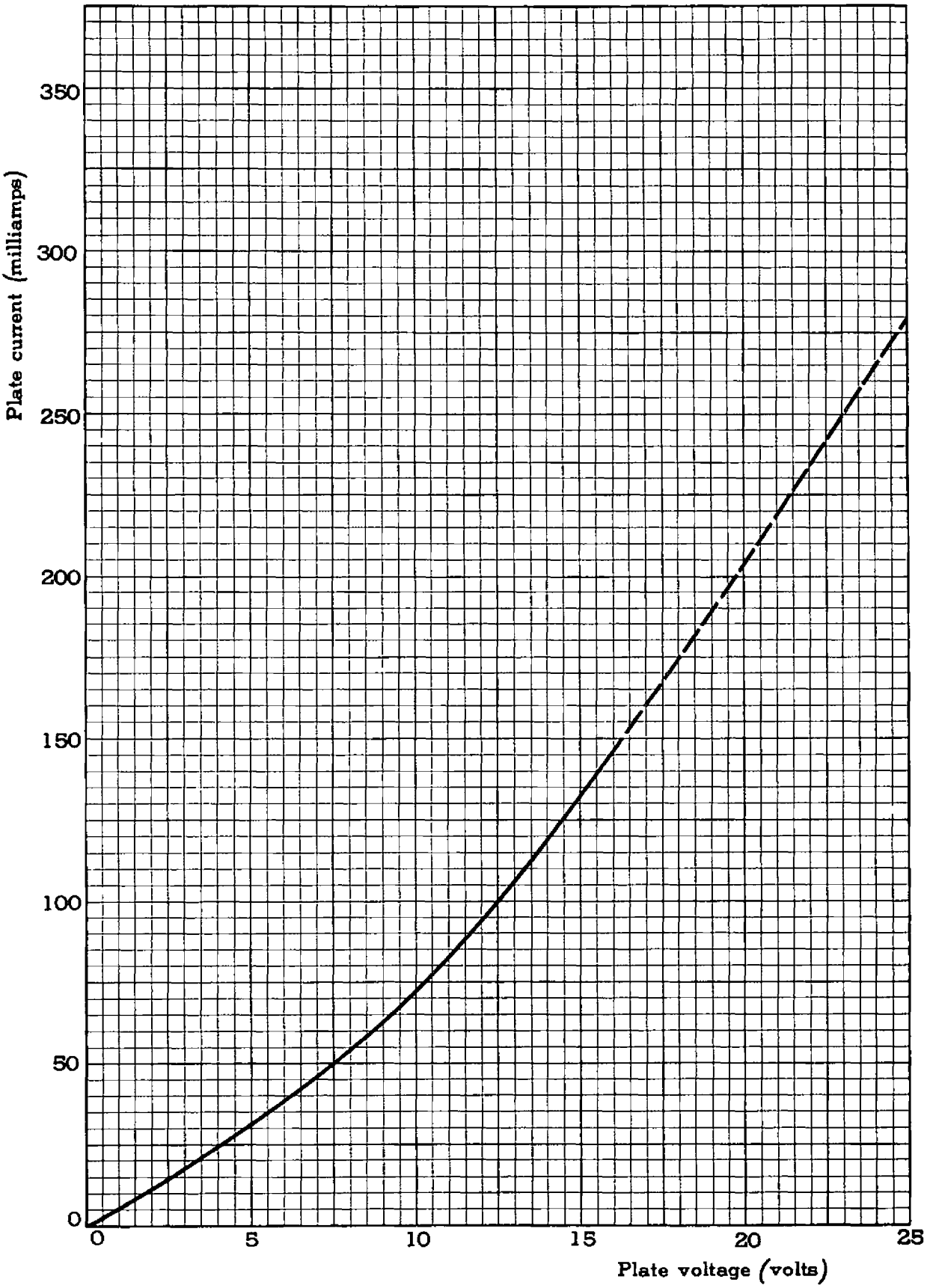


Plate current (milliamps)
350
300
250
200
150
100
50
0
0
5
10
15
20
25
Plate voltage (volts)