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.

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MAXIMUM RATINGS (design center values)
Plate current 150 m amps
Peak plate current 450 m amps
Booster capacitor 4 μF

During the flyback
Peak voltage between cathode and heater (cathode positive) 6 4500 volts
Peak voltage between cathode and plate (cathode positive) 6 4500 volts
Peak voltage between heater and plate (heater positive) 6 3000 volts

During the scanning
Peak voltage between cathode and heater (cathode positive) 800 volts
Voltage between cathode and heater (cathode positive; averaged over the scan) 500 volts

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

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