PHILIPS

BOOSTER DIODE

Physical Specifications

Cathode: Coated unipotential
Base: Small button noval 9-pin
Bulb: T6½
Maximum overall length: 3 1/16"
Maximum seated height: 2 13/16"
Bulb length excluding tip: 2 7/16" ± 3/32"
Maximum diameter: 7/8"
Mounting position: any
Basing connections - JETEC basing designation: 9BM

Pin 1 - See note 1
Pin 2 - Internally connected
Pin 3 - Cathode
Pin 4 - Heater
Pin 5 - Heater
Pin 6 - See note 1
Pin 7 - Internally connected
Pin 8 - See note 1
Pin 9 - Plate

Bottom view of base

Tube outline

General Electrical Data

Heater voltage: 6.3 volts
Heater current: 0.9 amp

Direct Interelectrode Capacitance

Plate to cathode: 5.5 µF

Maximum Ratings

Peak inverse plate voltage (see note 2): 4000 volts
Peak plate current: 400 ma
Average plate current: 180 ma
Heater cathode voltage (peak value, cathode positive with respect to heater): 650 volts
D.C. component of heater-cathode voltage: 450 volts
A.C. component of heater-cathode voltage: 160 volts

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Note 1. It is essential that adequate insulation is provided in the socket to withstand the maximum peak inverse voltage. To provide the required insulation in noval 9-pins sockets designed with a cylindrical centre shield, it is necessary to remove this shield. In addition, it is advisable to remove the socket contact for pin 6 in order to reduce the risk of flash-over and minimize the leakage through the socket. With certain types of sockets it may be necessary to mount the socket in a plate of insulating material with a diameter of at least 1 5/8". The pins 1, 2, 6, 7 and 8 should not be connected externally. For this reason all these pins have been marked i.c.

Note 2. The duration of the voltage pulse must not exceed 18% of one cycle and must moreover be limited to 18 microseconds.