

PHILIPS

19 X 3

BOOSTER DIODE

Physical Specifications

Cathode	Coated unipotential
Base	Small button noval 9-pin
Bulb	T6 $\frac{1}{2}$
Maximum overall length	3 $\frac{1}{16}$ "
Maximum seated height	2 $\frac{13}{16}$ "
Bulb length excluding tip	2 $\frac{7}{16}$ " $\pm$ $\frac{3}{32}$ "
Maximum diameter	$\frac{7}{8}$ "
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

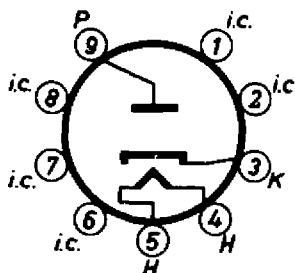
Pin 6 - See note 1

Pin 7 - Internally
connected

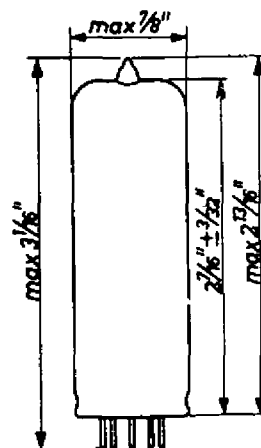
Pin 8 - See note 1

Pin 9 - Plate

Bottom view
of base



Tube outline



General Electrical Data

Heater voltage 19 volts

Heater current 300 ma

Direct Interelectrode Capacitance

Plate to cathode 5.5 μ F

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

6.6.1951

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N.V. PHILIPS' GLOEI LAMPEN FABRIEKEN, Eindhoven, Holland.

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 $1 \frac{5}{8}$ ". 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.

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