RCA

IB3-GT/8016

HALF-WAVE VACUUM RECTIFIER

Supersedes Type 8016

GENERAL DATA

Electrical:

Filament, Coated:
Voltage. . . . . 1.25* . . . . ac volts
Current. . . . . 0.2 . . . . amp
Direct Interelectrode Capacitance (Approx.):●
Plate to Filament. . . . 1.5 . . . . $\mu\mu$f

* The filament voltage must never exceed 1.5 volts, even momentarily.
● With no external shield.

Mechanical:

Mounting Position. . . . . Any
Overall Length . . . . 3-7/8" ± 3/16"
Seated Length. . . . . 3-5/16" ± 3/16"
Maximum Diameter . . . . 1-9/32" ←
Bulb T-9
Cap. . . . . Small
Base . . . . Intermediate-Shell Octal 6-Pin ←
    Basing Designation for BOTTOM VIEW 3C

Pin 1 – See NOTE
Pin 2 – Filament
Pin 3 – Same as Pin 1
Pin 5 – Same as Pin 1
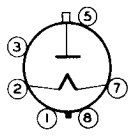
Pin 7 – Filament,
    Internal
    Shield
Pin 8 – Same as Pin 1
Cap – Plate

NOTE: May be connected to pin 7;
    otherwise, do not use.

HALF-WAVE RECTIFIER

Maximum Ratings, *Design-Center Values:*

PEAK INVERSE PLATE VOLTAGE . . . . 30000 max. volts ←
PEAK PLATE CURRENT . . . . 17 max. ma
AVERAGE PLATE CURRENT. . . . . 2 max. ma
FREQUENCY OF SUPPLY VOLTAGE. . . . . 300 max. kc

OPERATING NOTES

When the *filament* is to be operated on rf, it is recommended that the filament be connected first to a dc or low-frequency ac supply of 1.25 volts. The color temperature of the filament corresponding to this voltage may then be checked visually by observing in a darkened room the reflection of the incandescent filament upon the upper surface of the internal shield. A visual comparison of this color temperature with that obtained with the filament operated from an rf voltage provides a convenient means for adjusting the amount of rf excitation to produce 1.25 volts (RMS) at the filament terminals.
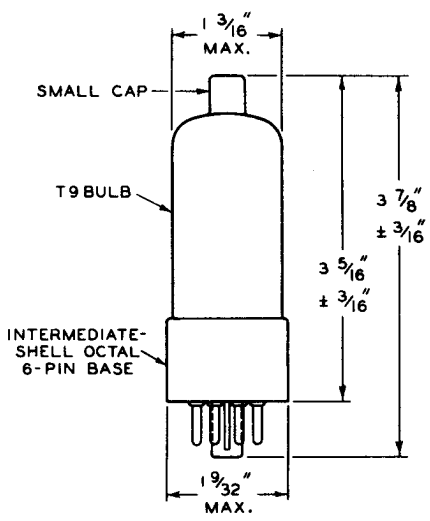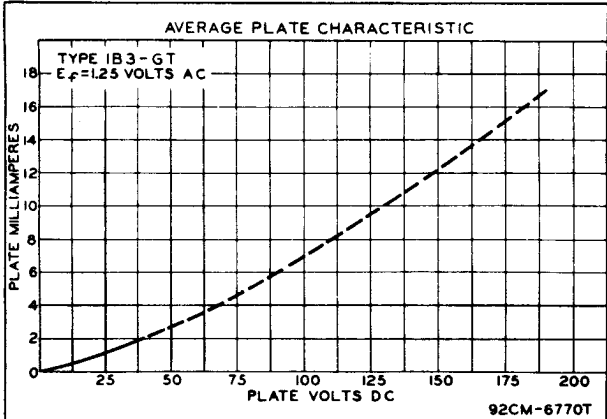
The *voltages* employed in some television receivers and other high-voltage equipment are sufficiently high that high-voltage rectifier tubes may produce soft x-rays which can constitute a health hazard, unless such tubes are adequately shielded. Relatively simple shielding should prove adequate, but the need for this precaution should be considered in equipment design.

← Indicates a change.

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

RCA

1B3-GT
HALF-WAVE VACUUM RECTIFIER

AVERAGE PLATE CHARACTERISTIC

TYPE 1B3-GT
$E_f = 1.25$ VOLTS AC

PLATE MILLIAMPERES

PLATE VOLTS DC

92CM-6770T

1 3/16" MAX.

SMALL CAP

T9 BULB

3 7/8" ± 3/16"

3 5/16" ± 3/16"

INTERMEDIATE-SHELL OCTAL 6-PIN BASE

1 9/32" MAX.

92CS-6760R1