



IB3-GT

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 μf

* The filament voltage must never exceed 1.5 volts, even momentarily.

• With no external shield.

Mechanical:

Mounting Position Any

Overall Length $3\text{-}7/8" \pm 3/16"$ Seated Length $3\text{-}5/16" \pm 3/16"$ Maximum Diameter $1\text{-}9/32"$ ←

Bulb T-9

Cap. Small

Base Intermediate-Shell Octal 6-Pin ←

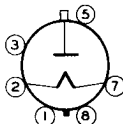
Basing Designation for BOTTOM VIEW 3C

Pin 1—See NOTE

Pin 2—Filament

Pin 3—Same as Pin 1

Pin 5—Same as Pin 1

Pin 7—Filament,
Internal
ShieldPin 8—Same as Pin 1
Cap — PlateNOTE: 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.

NOV. 15, 1949

TUBE DEPARTMENT

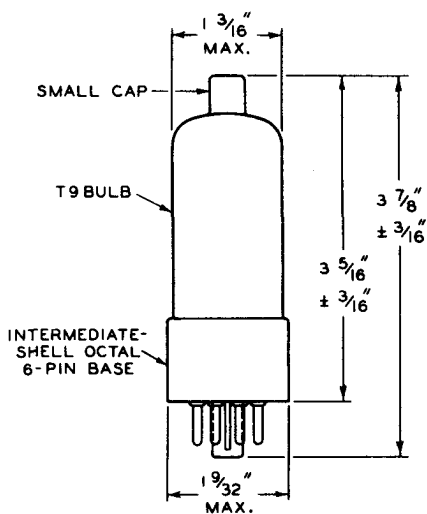
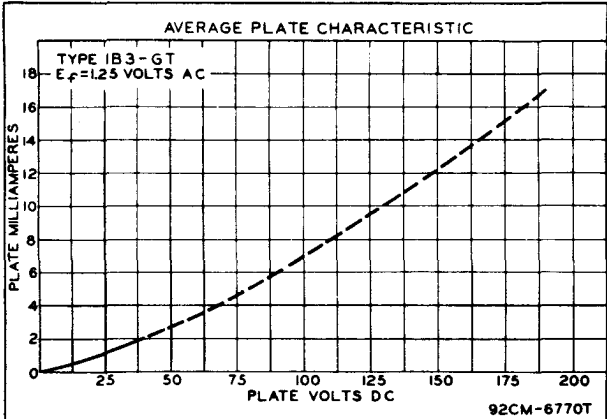
DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

1B3-GT



1B3-GT HALF-WAVE VACUUM RECTIFIER



92CS-6760R1