



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	μ f

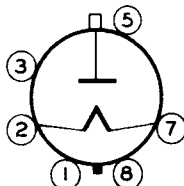
* The filament voltage must never exceed 1.5 volts, even momentarily.

• With no external shield.

Mechanical:

Mounting Position.	Any
Overall Length.	3-7/8" $\pm$ 3/16"
Seated Length.	3-5/16" $\pm$ 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.

NOV. 15, 1949

TUBE DEPARTMENT

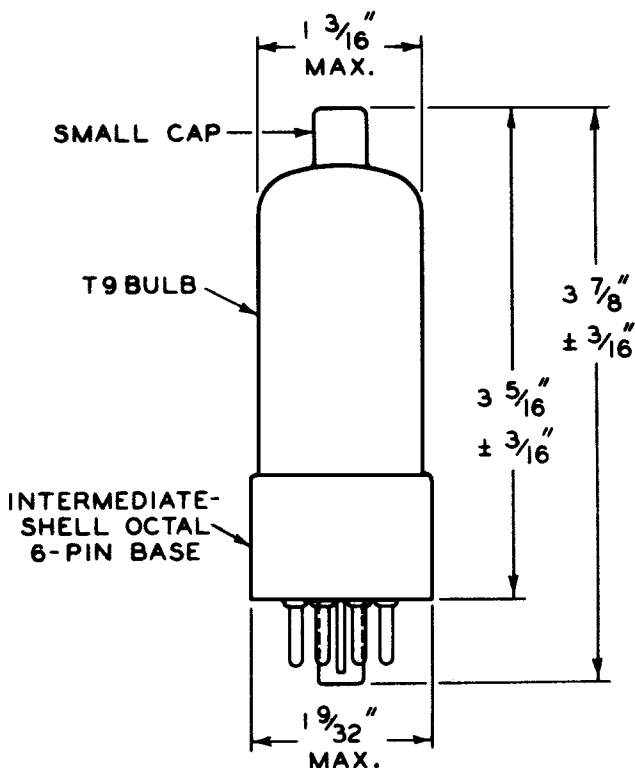
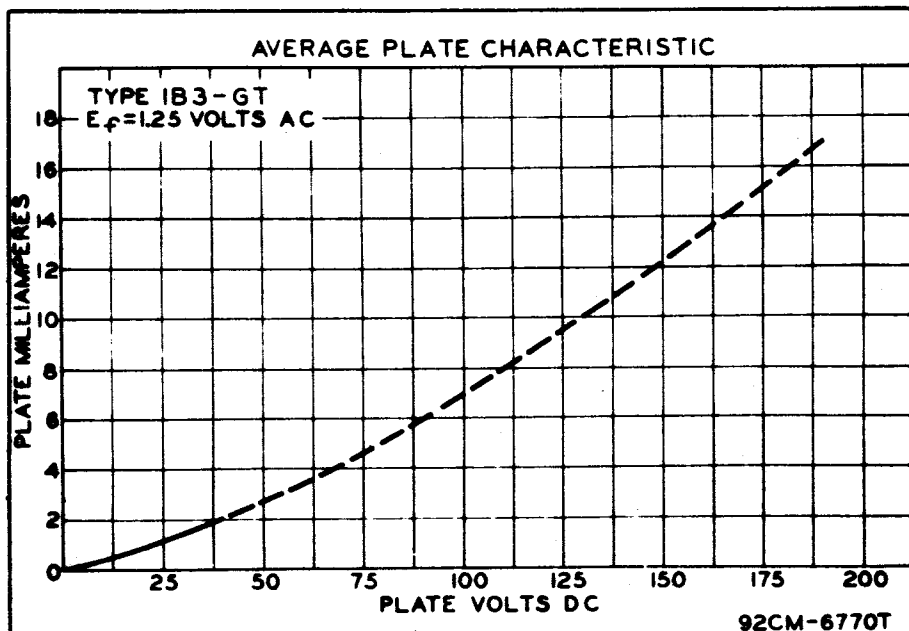
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

1B3-GT



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92CS-6760R1