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 Inter-electrode 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 .................. 3-7/8" ± 3/16"
Seated Length ................. 3-5/16" ± 3/16"
Maximum Diameter ........... 1-9/32"
Bulb ......................... T-9
Cap ................ Intermediate-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.

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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