6AF3
HALF-WAVE VACUUM RECTIFIER
9-PIN MINIATURE TYPE
For television damper service

GENERAL DATA

Electrical:
Heater, for Unipotential Cathode:
Voltage (AC or DC) .................. 6.3 ± 10% volts
Current .................................. 1.2 amp
Direct Inter-electrode Capacitance (Approx.)
Plate to cathode and heater ........... 6 μf
Cathode to plate and heater .......... 9 μf
Heater to cathode ...................... 2.8 μf

Mechanical:
Operating Position ..................... Any
Maximum Overall Length ............... 3–9/32"
Maximum Seated Length ............... 2–7/8" ± 1/8"
Diameter ......... See General Section
Dimensional Outline ............... See General Section
Bulb .................................. T6-1/2
Cap .................................. Skirted Miniature (JEDEC No.C1-2)
Base .................................. Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW .. 9CB

DAMPER SERVICE

Maximum Ratings, Design-Maximum Values:
For operation in a 525-line, 30-frame system
PEAK INVERSE PLATE VOLTAGE .......... 4500 max. volts
PEAK PLATE CURRENT ................. 750 max. ma
DC PLATE CURRENT .................. 185 max. ma
PLATE DISSIPATION .................. 6 max. watts
PEAK HEATER CATHODE VOLTAGE:
Heater negative with respect to cathode . 4500* max. volts
Heater positive with respect to cathode . 300* max. volts
BULB TEMPERATURE (At hottest point
on bulb surface) .................. 210 max. °C

Characteristics:
Tube-Voltage Drop for plate ma. = 340 . . . 30 volts

O Without external shield.
♦ Socket terminals 1, 2, 3, 6, 7, and 8 should not be used as tie points.
□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.
This rating is applicable where the duty cycle of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

The dc component must not exceed 1000 volts.

The dc component must not exceed 100 volts.