RCA-12AX4-GT is a half-wave vacuum rectifier of the heater-cathode type designed primarily for use as a damper tube in horizontal deflection circuits of television receivers utilizing series-heater strings.

Designed with insulation between heater and cathode to withstand negative peak pulses between heater and cathode of as much as 4000 volts with a dc component up to 900 volts, the 12AX4-GT provides flexibility in choice of deflection circuits.

**GENERAL DATA**

**Electrical**
- Heater, for Unipotential Cathode:
  - Voltage (AC or DC) .............. 12.6 volts
  - Current ......................... 0.6 amp
- Direct Interelectrode Capacitance (with no external shield):
  - Heater to Cathode .............. 7.5 μf

**Mechanical**
- Mounting Position ................ Any
- Maximum Overall Length ............ 3-5/16"
- Maximum Seated Length ........... 2-3/4"
- Maximum Diameter .............. 1-9/32" T-9
- Bulb ................................ T-9
- Base .................. Short Intermediate-Shell Octal 5-Pin

**DAMPER SERVICE**

**Maximum Ratings, Design-Center Values**
- Peak Inverse Plate Voltage .......... 4000* max. volts
- Peak Plate Current .................. 600 max. ma
- Hot-Switching Transient Plate Current .... 3.0 max. amp
- DC Plate Current .................... 125 max. ma
- Peak Heater-Cathode Voltage:
  - Heater negative with respect to cathode .......... 4000* max. volts
  - Heater positive with respect to cathode ........... 100 max. volts

**Typical 12AX4-GT**

**AVERAGE PLATE CHARACTERISTIC**

average Plate Characteristic of Type 12AX4-GT.

*This rating is applicable when 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 900 volts.