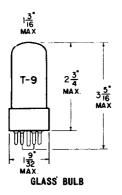
DIODE



COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.6±6% AMP. AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
INTERMEDIATE—SHELL
5 PIN OCTAL
406

THE 12AX4GTB IS A HEATER-CATHODE-TYPE SINGLE D:ODE INTENDED FOR USE AS THE DAMPING DIODE IN THE HORIZONTAL-DEFLECTION CIRCUIT OF TELEVISION RECEIVERS. IT IS PARTICULARLY USEFUL IN AUTOTRANSFORMER DEFLECTION SYSTEMS IN WHICH HIGH PULSE VOLTAGES ARE APPLIED TO THE CATHODE OF THE DAMPER TUBE.

EXCEPT FOR HEATER RATINGS, THE 12AX4GTB IS IDENTICAL TO THE 6AX4GTB AND ← IS UNILATERALLY INTERCHANGEABLE WITH THE 12AX4GTA.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

| CATHODE TO PLATE AND HEATER | 8.5 | μμf |
|-----------------------------|-----|------|
| PLATE TO CATHODE AND HEATER | 5.0 | µцt |
| HEATER TO CATHODE | 4.0 | µµ f |

RATINGS INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM TV DAMPER SERVICE

| HEATER VOLTAGE | 12.6 | VOLTS |
|---|------|---------|
| MAXIMUM PEAK INVERSE PLATE VOLTAGE | 5000 | VOLTS |
| MAXIMUM PLATE DISSIPATION | 5.3 | WATTS |
| MAXIMUM STEADY-STATE PEAK PLATE CURRENT | 1000 | MA. |
| MAXIMUM DC OUTPUT CURRENT | 165 | MA. |
| MAXIMUM HEATER-CATHODE VOLTAGE: | | |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | |
| DC COMPONENT | 100 | VOLTS |
| TOTAL DC AND PEAK | 300 | VOLTS |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | | |
| DC COMPONENT | 900 | VOLTS |
| TOTAL DC AND PEAK | 5000 | VOLTS |
| HEATER WARM-UP TIME (APPROX.)* | 11.0 | SECONDS |

--- INDICATES A CHANGE

*HEATER WARM-UP TIME IS DEFINED AS THE TIME REQUIRED FOR THE VOLTAGE ACROSS THE HEATER TO REACH BO\$ OF ITS RATED VOLTAGE AFTER APPLYING 4 TIMES RATED HEATER VOLTAGE TO A CIRCUIT CONSISTING OF THE TUBE MEATER IN SERIES WITH A RESISTANCE OF VALUE 3 TIMES THE NOMINAL HEATER OPERATING RESISTANCE.

CONTINUED ON FOLLOWING PAGE

- TUNG-SOL -

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AVERAGE CHARACTERISTICS

HEATER VOLTAGE 12.6 VOLTS HEATER CURRENT 0.6±6% AMP. TUBE VOLTAGE DROP $\rm I_b^=250~Ma.~DC$ 32 VOLTS

NOTE:

OPERATION OF THIS TUBE AS A POWER RECTIFIER IS NOT RECOMMENDED.

AFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS, FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL COMDITIONS APPLICABLE TO A BOGEY ELECTROM DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD MOT BE EXCEEDED MORE THE WORST PROBABLE COMDITIONS. THE DEVICE MANDETURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CRANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT COMPONENT VARIATIONS.

