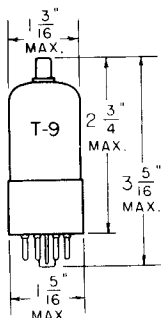


TUNG-SOL

DIODE-TRIODE POWER
PENTODE AMPLIFIER

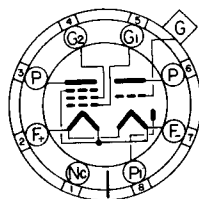
SKIRTED MINIATURE
CAP

COATED FILAMENT

1.4 VOLTS 0.10 AMPERE
DC

GLASS BULB

ANY MOUNTING POSITION



BOTTOM VIEW

INTERMEDIATE 8 PIN
OCTAL BASE

THE ID8GT IS A LOW VOLTAGE, LOW CURRENT BATTERY TYPE TUBE, WHICH COMBINES A SINGLE DIODE, TRIODE AND A POWER PENTODE IN ONE BULB.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

| | | |
|--|-----|-------|
| MAXIMUM PLATE VOLTAGE (TRIODE SECTION) | 110 | VOLTS |
| MAXIMUM PLATE VOLTAGE (PENTODE SECTION) | 110 | VOLTS |
| MAXIMUM SCREEN VOLTAGE (PENTODE SECTION) | 110 | VOLTS |
| MAXIMUM CATHODE CURRENT-ZERO SIGNAL (PENTODE SECTION) | 6.0 | MA. |
| MINIMUM DIODE CURRENT WITH 10 VOLTS DC APPLIED | 0.5 | MA. |

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

TRIODE UNIT

| | | | | |
|----------------------------|--------|--------|--------|-------|
| PLATE VOLTAGE | 45 | 67.5 | 90 | VOLTS |
| GRID VOLTAGE | 0 | 0 | 0 | VOLTS |
| PLATE CURRENT | 0.3 | 0.6 | 1.1 | MA. |
| PLATE RESISTANCE (APPROX.) | 77 000 | 55 500 | 43 500 | OHMS |
| TRANSCONDUCTANCE | 325 | 450 | 575 | UMHOS |
| AMPLIFICATION FACTOR | 25 | 25 | 25 | |

CONTINUED ON NEXT PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

PENTODE UNIT

| | | | | | |
|----------------------------|--------|--------|--------|--------|----------|
| PLATE VOLTAGE | 45 | 62.5 | 67.5 | 90 | VOLTS |
| SCREEN VOLTAGE | 45 | 62.5 | 67.5 | 90 | VOLTS |
| CONTROL GRID VOLTAGE | -4.5 | -5.0 | -6.0 | -9.0 | VOLTS |
| PEAK AF SIGNAL VOLTAGE | 4.5 | 5.0 | 6.0 | 9.0 | VOLTS |
| PLATE CURRENT | 1.6 | 3.8 | 3.8 | 5.0 | MA. |
| SCREEN CURRENT | 0.3 | 0.8 | 0.8 | 1.0 | MA. |
| PLATE RESISTANCE (APPROX.) | 0.3 | 0.2 | 0.2 | 0.2 | MEGOHM |
| TRANSCONDUCTANCE | 650 | 875 | 875 | 925 | UMHOS |
| LOAD RESISTANCE | 20 000 | 16 000 | 16 000 | 12 000 | OHMS |
| TOTAL HARMONIC DISTORTION | 10 | 10 | 10 | 10 | PER CENT |
| POWER OUTPUT | 35 | 90 | 100 | 200 | MW. |

DIODE UNIT

THE DIODE IS LOCATED AT THE NEGATIVE END OF THE FILAMENT, AND IS INDEPENDENT OF THE TRIODE UNIT AND OF THE PENTODE UNIT EXCEPT FOR THE COMMON FILAMENT.