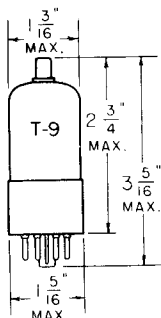


## TUNG-SOL

DIODE-TRIODE POWER  
PENTODE AMPLIFIER

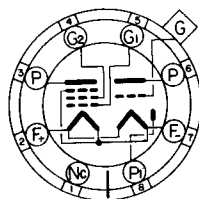
SKIRTED MINIATURE  
CAP

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  $A_1$  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	

PLATE  
1498  
OCT. 31  
1944

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.