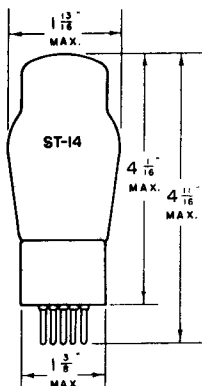


## TUNG-SOL



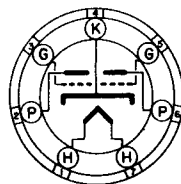
**TWIN TRIODE**  
**POWER AMPLIFIER**

UNIPOTENTIAL CATHODE

HEATER  
6.3 VOLTS 0.8 AMPERE  
AC OR DC

GLASS BULB

MEDIUM 7 PIN BASE



7B

BOTTOM VIEW

THE TUNG-SOL 6A6 IS A TWIN TRIODE DESIGNED FOR SERVICE AS A CLASS B POWER AMPLIFIER AND AS A CLASS A<sub>1</sub> DRIVER. WITH THE EXCEPTION OF HEATER RATINGS, ITS RATINGS AND CHARACTERISTICS ARE IDENTICAL TO THOSE OF TYPES 6N7, 6N7G, 6N7GT AND 53.

## RATINGS

CLASS A<sub>1</sub> AMPLIFIER

MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM PEAK PLATE CURRENT PER PLATE	125	MA.
MAXIMUM AVERAGE DISSIPATION PER PLATE	1.0	WATT

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER - TRIODES CONNECTED IN PARALLEL

PLATE VOLTAGE	250	294	VOLTS
CONTROL GRID VOLTAGE	-5	-6	VOLTS
PLATE CURRENT	6	7	MA.
PLATE RESISTANCE	11 300	11 000	OHMS
TRANSCONDUCTANCE	3100	3200	UMHOS
AMPLIFICATION FACTOR	35	35	

## RATINGS

## CLASS B POWER AMPLIFIER

MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM PEAK PLATE CURRENT	125	MA.
MAXIMUM AVERAGE DISSIPATION PER PLATE	5.5	WATTS

PLATE  
1139-2

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## TUNG-SOL

OPERATING CONDITIONS AND CHARACTERISTICS<sup>A</sup>

CLASS B AMPLIFIER	IDEAL	TYPICAL	
ZERO SIGNAL PLATE VOLTAGE	300	300	VOLTS
DC GRID VOLTAGE	0	0	VOLT
PEAK AF SIGNAL VOLTAGE <sup>PER GRID(B)</sup>	29	41 <sup>C</sup>	VOLTS
MAXIMUM SIGNAL PEAK GRID CURRENT <sup>PER GRID</sup>	20	22	MA.
ZERO SIGNAL PLATE CURRENT <sup>PER PLATE</sup>	17.5	17.5	MA.
MAXIMUM SIGNAL DC PLATE CURRENT <sup>PER PLATE</sup>	35	35	MA.
GRID IMPEDANCE AT 400 CYCLES	0	516 <sup>D</sup>	OHMS
PLATE SUPPLY IMPEDANCE	0	1000	OHMS
EFFECTIVE LOAD RESISTANCE <sup>PLATE TO PLATE</sup>	8000	8000	OHMS
TOTAL HARMONIC DISTORTION	4	8	PER CENT
THIRD HARMONIC DISTORTION	3.5	7.5	PER CENT
FIFTH HARMONIC DISTORTION	1.5	2.5	PER CENT
POWER OUTPUT	10	10	WATTS

<sup>A</sup> UNLESS OTHERWISE SPECIFIED, VALUES ARE FOR BOTH UNITS

<sup>B</sup> FOR POWER OUTPUT SHOWN.

<sup>C</sup> INCLUDES PEAK GRID IMPEDANCE VOLTAGE DROP.

<sup>D</sup> THE 516 OHMS IMPEDANCE CONSISTS OF A 50 MH. INDUCTANCE AND A 500 OHM RESISTANCE.

