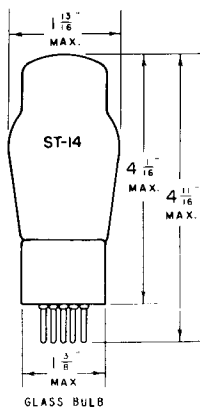


## TUNG-SOL



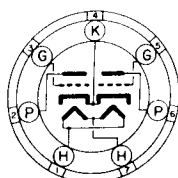
## TWIN TRIODE POWER AMPLIFIER

UNIPOTENTIAL CATHODE

HEATER

2.5 VOLTS 2.0 AMPERES

AC OR DC



7B

BOTTOM VIEW  
MEDIUM 7 PIN BASE

THE TUNG-SOL 53 IS A TWIN TRIODE DESIGNED PRIMARILY FOR SERVICE AS A CLASS B POWER AMPLIFIER. EXCEPT FOR CAPACITANCES AND HEATER RATINGS, ITS RATINGS AND ELECTRICAL CHARACTERISTICS ARE IDENTICAL TO THOSE OF THE 6N7, 6N7G AND THE 6A6.

## RATINGS

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

## OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

TRIODES CONNECTED IN PARALLEL

PLATE VOLTAGE	250	294	VOLTS
GRID VOLTAGE	-5	-6	VOLTS
PLATE CURRENT	6	7	MA.
PLATE RESISTANCE	11300	11000	OHMS
TRANSCONDUCTANCE	3100	3200	μMHOS
AMPLIFICATION FACTOR	35	35	

CLASS B<sub>2</sub> AMPLIFIER - PUSH-PULL

UNLESS STATED OTHERWISE, VALUES ARE FOR TWO TUBES

	IDEAL	TYPICAL	
ZERO-SIGNAL PLATE VOLTAGE	300	300	VOLTS
DC GRID VOLTAGE	0	0	VOLT
AF-PEAK SIGNAL VOLTAGE PER GRID <sup>A</sup>	29	41	VOLTS
MAXIMUM PEAK-SIGNAL GRID CURRENT PER GRID	20	22	MA.
ZERO-SIGNAL PLATE CURRENT PER PLATE	17.5	17.5	MA.
MAXIMUM-SIGNAL DC PLATE CURRENT PER PLATE	35	35	MA.
GRID IMPEDANCE AT 400 CYCLES	0	516 <sup>B</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	3.5	7.5	PER CENT
FIFTH HARMONIC	1.5	2.5	PER CENT
POWER OUTPUT	10	10	WATTS

<sup>A</sup> FOR POWER OUTPUT SHOWN<sup>B</sup> 500 OHMS AND 50 MH.

FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK