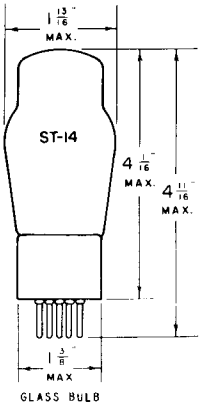
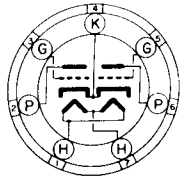
TUNG-SOL



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_1 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_2 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 [A]	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 [B]	OHMS
PLATE SUPPLY IMPEDANCE	0	1000	OHMS
EFFECTIVE LOAD RESISTANCE PLATE-TO-PLATE	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

[A] FOR POWER OUTPUT SHOWN

[B] 500 OHMS AND 50 MH.

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PLATE
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FOR "INTERPRETATION OF RATINGS" REFER TO FRONT OF BOOK