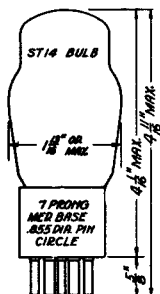


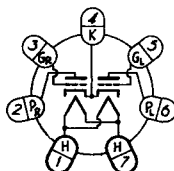
TWIN TRIODE
POWER AMPLIFIER
Heater Type Glass Bulb



The 53 is a twin triode type amplifier tube designed for service as a Class B amplifier in the output stage of a-c operated receivers.

RATINGS

Heater Voltage (a-c or d-c)	2.5	volts
Heater Current	2.0	amp
Maximum Plate Voltage	300	volts
Maximum Peak Plate Current (per plate)	125	ma
Maximum Average Plate Dissipation	10	watts



BOTTOM VIEW OF SOCKET

AMPLIFIER - CLASS B

Plate Voltage	250	300	volts
Grid Bias	0	0	volts
No-Signal Plate Current (per plate)	14	17.5	ma
Load Resistance (plate to plate)	8000	10000	ohms
Power Output (approximate)	8	10	watts
(With average power input = 350 mw. grid to grid)			

AMPLIFIER - CLASS A DRIVER - TRIODES CONNECTED IN PARALLEL

Plate Voltage	250	294	volts
Grid Bias†	-5	-6	volts
Amplification Factor	35	35	
Plate Resistance	11300	11000	ohms
Transconductance	3100	3200	μmhos
Plate Current	6	7	ma
Load Resistance - Depends on the design of the following Class B amplifier.			
Usually between 20000 and 40000 ohms.			
Power Output	400		mw

†The d-c resistance in the grid circuit should not exceed 0.5 megohm with self-bias or 0.1 megohm with fixed-bias.

For characteristic curves refer to the types 6A6 and 6N7G. The characteristics of the 53 are the same as those of the 6A6 and the 6N7G except for the heater rating.