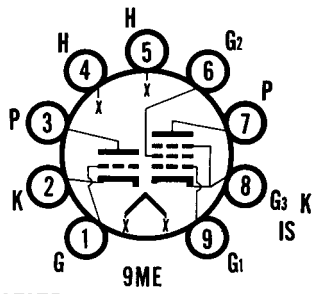


**SYLVANIA TYPES**  
**18HB8**  
**35HB8**



**TRIODE-BEAM POWER AMPLIFIER**

**MECHANICAL DATA**

Bulb.....	T-6 1/2
Base.....	E9-1, Miniature Button 9-Pin
Outline.....	JEDEC 6-3
Basing.....	9ME
Cathodes.....	Coated Unipotential
Mounting Position.....	Any

**ELECTRICAL DATA**

**HEATER CHARACTERISTICS**

	<b>18HB8</b>	<b>35HB8</b>
Heater Voltage <sup>1</sup> .....	18.0	35.0 Volts
Heater Current.....	300	150 Ma
Heater-Cathode Voltage (Design Max. Values)		
Heater Negative with Respect to Cathode		
Total D C and Peak.....	200	200 Volts Max.
Heater Positive with Respect to Cathode		
D C.....	100	100 Volts Max.
Total D C and Peak.....	200	200 Volts Max.

**RATINGS (Design Maximum Values)**

	<b>Triode Section</b>	<b>Pentode Section</b>
Plate Voltage.....	150	150 Volts Max.
Grid No. 2 Voltage.....	...	135 Volts Max.
Cathode Current.....	5	50 Ma Max.
Plate Dissipation.....	0.75	6.5 Watts Max.
Grid No. 2 Dissipation.....	...	1.5 Watts Max.
Grid Circuit Resistance		
Fixed Bias.....	...	0.1 Megohm Max.
Cathode Bias.....	...	0.47 Megohm Max.

**CHARACTERISTICS AND TYPICAL OPERATION**

	<b>Triode Section</b>	<b>Pentode Section</b>
Plate Voltage.....	115	115 Volts
Grid No. 2 Voltage.....	...	115 Volts
Peak AF Grid No. 1 Voltage.....	...	6.0 Volts
Cathode Resistor.....	410	150 Ohms
Zero-Signal Plate Current.....	2.5	33 Ma
Maximum-Signal Plate Current.....	...	32 Ma
Zero-Signal Grid No. 2 Current.....	...	7.5 Ma
Maximum-Signal Grid No. 2 Current.....	...	10 Ma
Transconductance.....	3900	6250 $\mu$ mhos
Amplification Factor.....	74	...
Load Resistance.....	...	3500 Ohms
Maximum-Signal Power Output.....	...	1.0 Watt
Total Harmonic Distortion (approx.).....	...	8 Percent

**NOTE:**

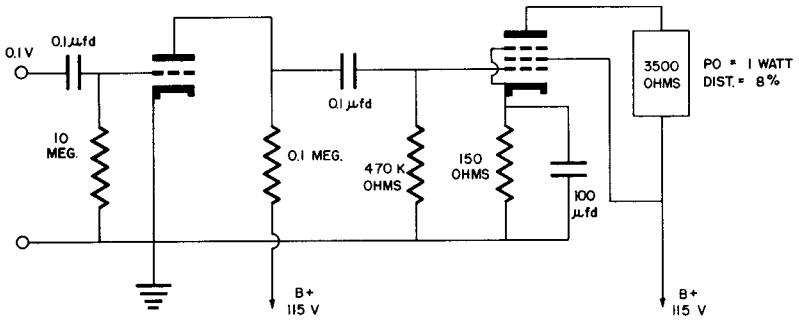
1. The heater should be connected with Pin No. 4 closest to the ground end of the heater string.

**APPLICATION**

The Sylvania Types 18HB8 and 35HB8 are miniature triode-pentodes designed for audio applications in stereo and monaural sound equipment.

# SYLVANIA TYPES 18HB8 (Cont'd) 35HB8

FIGURE 1



D59014