



Sylvania  
**TYPE 55**  
DUODIODE  
TRIODE

### CHARACTERISTICS

Heater Voltage AC or DC . . . . .	2.5 Volts
Heater Current . . . . .	1.0 Ampere

#### Direct Interelectrode Capacitances (Triode Unit):

Grid to Plate . . . . .	1.5 $\mu\mu\text{f}$
Input . . . . .	1.5 $\mu\mu\text{f}$
Output . . . . .	4.3 $\mu\mu\text{f}$
Maximum Over-all Length . . . . .	4 $\frac{1}{16}$ "
Maximum Diameter . . . . .	1 $\frac{3}{16}$ "
Bulb . . . . .	ST-12
Cap . . . . .	Small Metal
Base—Small 6-Pin . . . . .	6-G

#### CLASS A AMPLIFIER (TRIODE UNIT)

Heater Voltage . . . . .	2.5	2.5	2.5 Volts
Plate Voltage . . . . .	135	180	250 Volts
Grid Voltage . . . . .	-10.5	-13.5	-20.0 Volts
Plate Current . . . . .	3.7	6.0	8.0 Ma.
Plate Resistance . . . . .	11000	8500	7500 Ohms
Mutual Conductance . . . . .	750	975	1100 $\mu\text{mhos}$
Amplification Factor . . . . .	8.3	8.3	8.3
Load Resistance . . . . .	25000	20000	20000 Ohms
Power Output . . . . .	75	160	350 Mw.

### CIRCUIT APPLICATION

Sylvania 55 is a duodiode triode similar in design and electrical characteristics to Type 85 except for its heater rating which is 1.0 ampere at 2.5 volts. The 55 may be used in a-c household receivers designed for 2.5 volt tubes. The diodes may be employed for detection and for securing a-v-c voltage, while the triode section is being used as an a-f amplifier.

Types 55 and 85 have the same general design as the Sylvania 75 except that the triode section of the latter has an amplification factor of 100 as compared with 8.3 for the former tubes.

For complete details concerning the uses of Type 55 refer to **Circuit Application** section given under Type 85 (the 6.3 volt equivalent of the 55).