



Sylvania  
**TYPE 2A6**  
 DUODIODE  
 HIGH-MU TRIODE

### CHARACTERISTICS

Heater Voltage AC or DC . . . . .	2.5 Volts
Heater Current . . . . .	0.8 Ampere

#### Interelectrode Capacitances, Triode Unit (Approx.):

Grid-Plate . . . . .	1.7 $\mu\mu\text{f}$
Grid-Cathode . . . . .	1.7 $\mu\mu\text{f}$
Plate-Cathode . . . . .	3.8 $\mu\mu\text{f}$
Maximum Over-all Length . . . . .	4 $\frac{1}{4}$ "
Maximum Diameter . . . . .	1 $\frac{1}{8}$ "
Bulb . . . . .	ST-12
Cap . . . . .	Small Metal
Base—Small 6-Pin . . . . .	6-G

#### Operating Conditions and Characteristics:

##### TRIODE UNIT—CLASS A AMPLIFIER

Heater Voltage . . . . .	2.5 Volts
Plate Voltage . . . . .	250 Volts Max.
Grid Voltage† . . . . .	-2 Volts
Plate Current† . . . . .	1.0 Ma.
Plate Resistance . . . . .	91000 Ohms
Mutual Conductance . . . . .	1100 $\mu\text{mhos}$
Amplification Factor . . . . .	100

†These are rating values only and not operating points with coupling resistor.

### CIRCUIT APPLICATION

Sylvania 2A6 is a duodiode high-mu triode with characteristics and ratings duplicating those of Type 75 except that it has a 2.5 volt heater. The design of the 2A6 is the same as the 75. The diodes may be utilized for detection and for securing automatic volume control, while the triode is being used as an audio amplifier.

The 2A6 is an ideal tube for use in a-c receivers employing resistance coupling where maximum gain is required. For a complete discussion on the application of the 2A6 refer to Type 75.