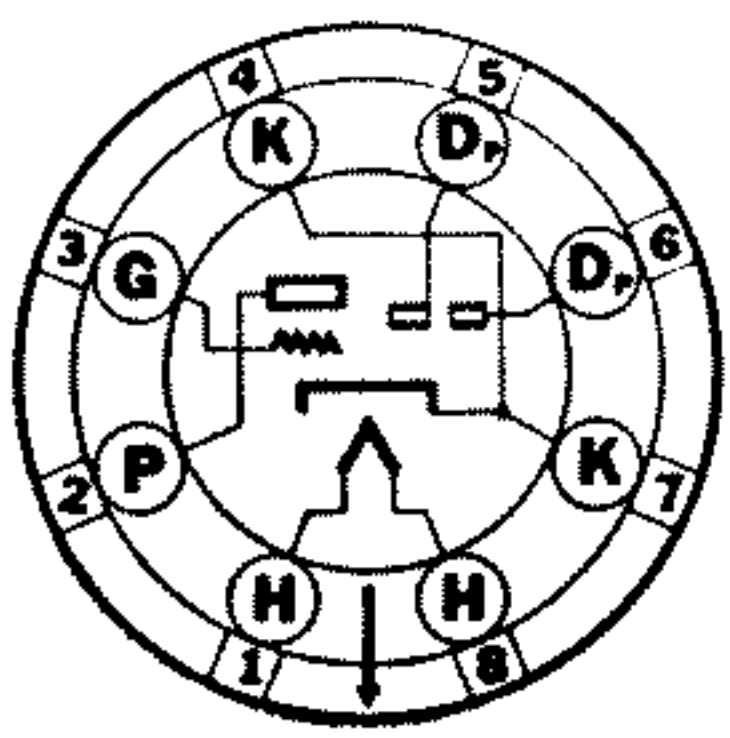
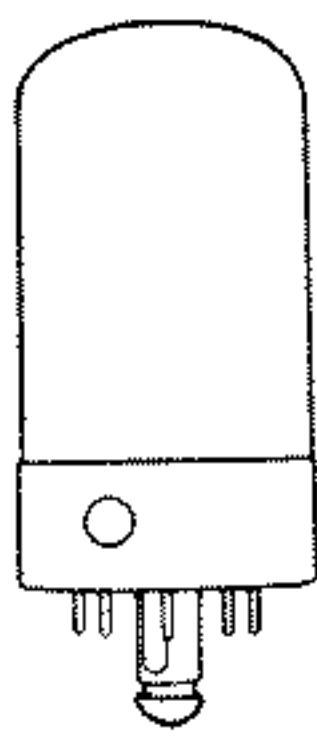


Sylvania Type 7C6

DUODIODE HIGH-MU TRIODE



8W-L-7



PHYSICAL SPECIFICATIONS

Base.....	Lock-In 8 Pin
Bulb.....	T-9
Maximum Overall Length.....	2 ³⁵ / ₃₂ "
Maximum Seated Height.....	2 ¹ / ₄ "
Mounting Position.....	Any

RATINGS

Heater Voltage AC or DC (Nominal).....	7.0 Volts
Heater Current (Nominal).....	0.16 Ampere
Maximum Plate Voltage.....	300 Volts
Maximum Diode Drop at .8 Ma.....	10 Volts
Maximum Diode Current per Plate (Continuous).....	1.0 Ma.
Maximum Heater-Cathode Voltage.....	90 Volts

TYPICAL OPERATION

Heater Voltage.....	6.3	6.3 Volts
Heater Current.....	0.150	0.150 Ampere
Plate Voltage.....	100	250 Volts
Grid Voltage*.....	0.0	-1.0 Volt
Plate Current*.....	1.0	1.3 Ma.
Plate Resistance*.....	0.1	0.1 Megohm
Mutual Conductance*.....	850	1000 μ mhos
Amplification Factor*.....	85	100

*These are rating values only and not operating points with coupling resistor. Refer to tabulated data on page 49 for this information.

APPLICATION

Sylvania Type 7C6 is a single-ended duodiode high-mu triode having electrical characteristics quite similar to those for Type 75, except for the heater ratings.

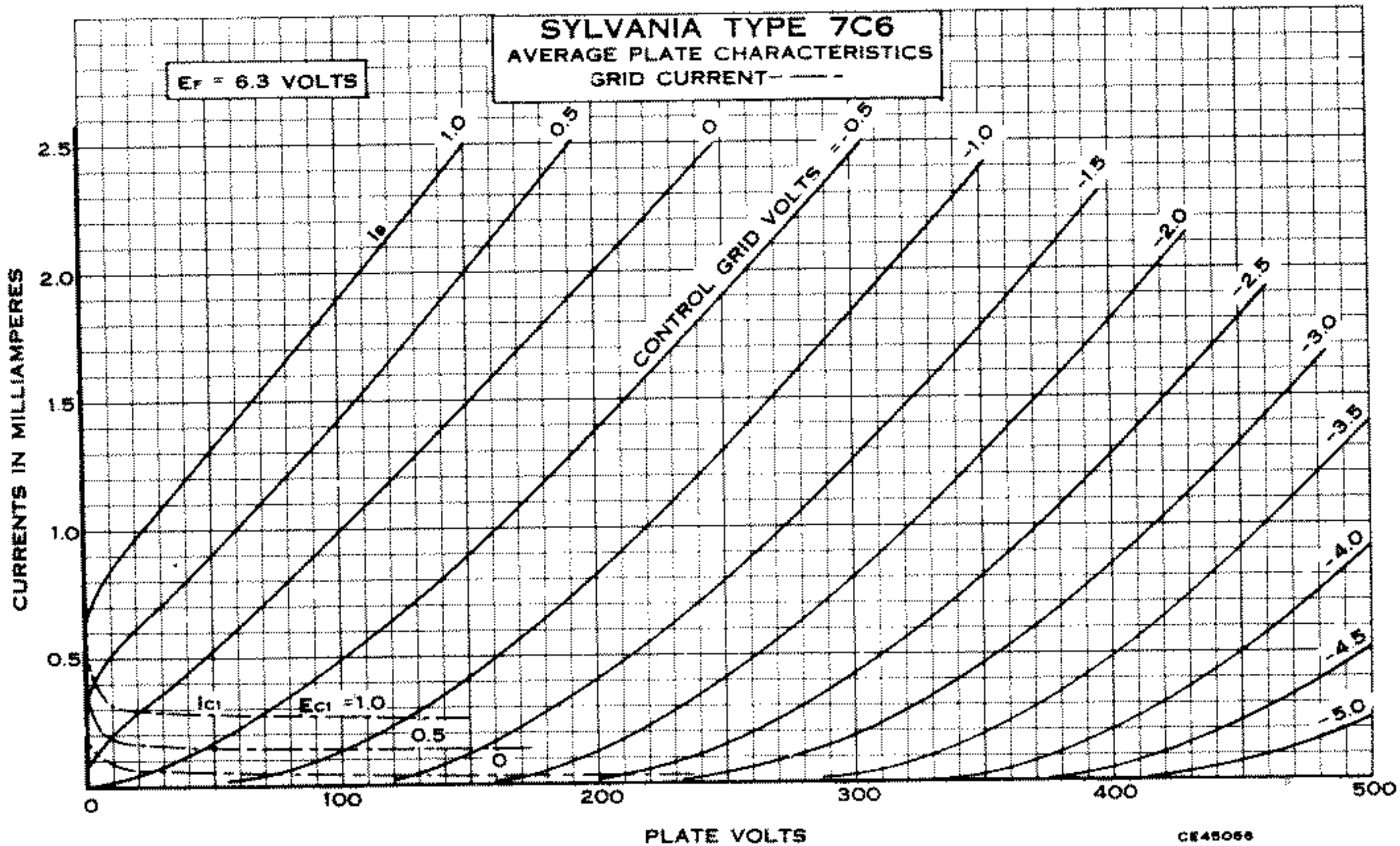
The diodes are substantially the same as those employed in other Sylvania duodiode high-mu triode types and therefore are suitable for conventional circuit applications. Diode curves are given under Type 7B6.

The triode section should not be employed with fixed bias. A high value of grid resistor is required and the triode operated essentially under zero bias conditions. With a plate supply voltage of 250 volts, the plate load resistor should be approximately 0.25 megohm. For special applications this value may be varied to suit the conditions.

Resistance coupled data is given on page 49.

It will be noted from the base diagram that the cathode is connected to two contact pins, Numbers 4 and 7. Pin Number 4 is used as a mount support for the cathode, therefore, the potential of Pins 4 and 7 is the same.

The lock-in construction provides compactness, suitable shielding and the special lock-in feature. For a-c service the 7-volt heater rating corresponds to a 130-volt line condition.



7C6 (Cont.)

