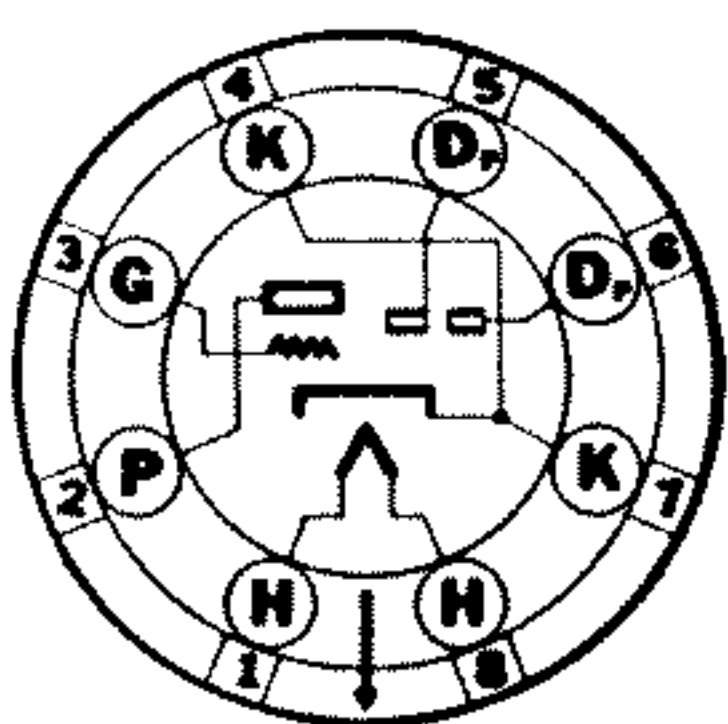


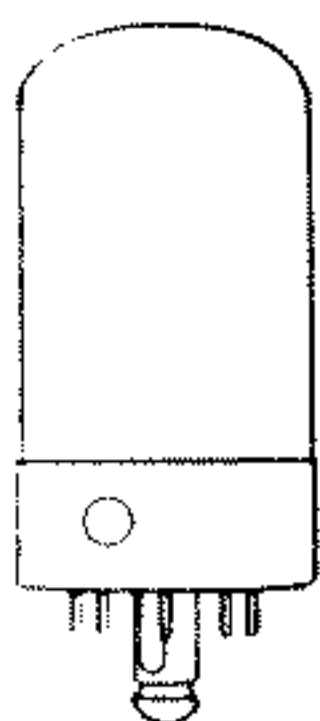
# Sylvania Type 7B6

DUODIODE HIGH-MU TRIODE

GT EQUIVALENT 6SQ7GT



8W-L-7



## PHYSICAL SPECIFICATIONS

Base.....	Lock-In 8 Pin
Bulb.....	T9
Maximum Overall Length.....	2 <sup>25</sup> / <sub>32</sub> "
Maximum Seated Height.....	2 <sup>1</sup> / <sub>4</sub> "
Mounting Position.....	Any

## RATINGS

Heater Voltage AC or DC (Nominal).....	7.0 Volts
Heater Current (Nominal).....	0.32 Ampere
Maximum Plate Voltage.....	300 Volts
Maximum Heater-Cathode Voltage.....	90 Volts
Maximum Diode Drop at 0.8 Ma.....	10 Volts
Maximum Diode Current per Plate (Continuous).....	1.0 Ma.

### Direct Interelectrode Capacitances:\*

Grid to Plate.....	1.6 $\mu$ f.
Input.....	3.0 $\mu$ f.
Output.....	2.4 $\mu$ f.
Grid to Diode 1.....	0.01 $\mu$ f.
Grid to Diode 2.....	0.04 $\mu$ f.

\*With 1<sup>5</sup>/<sub>16</sub>" diameter shield (RMA Std. M8-308) connected to cathode.

## TYPICAL OPERATION

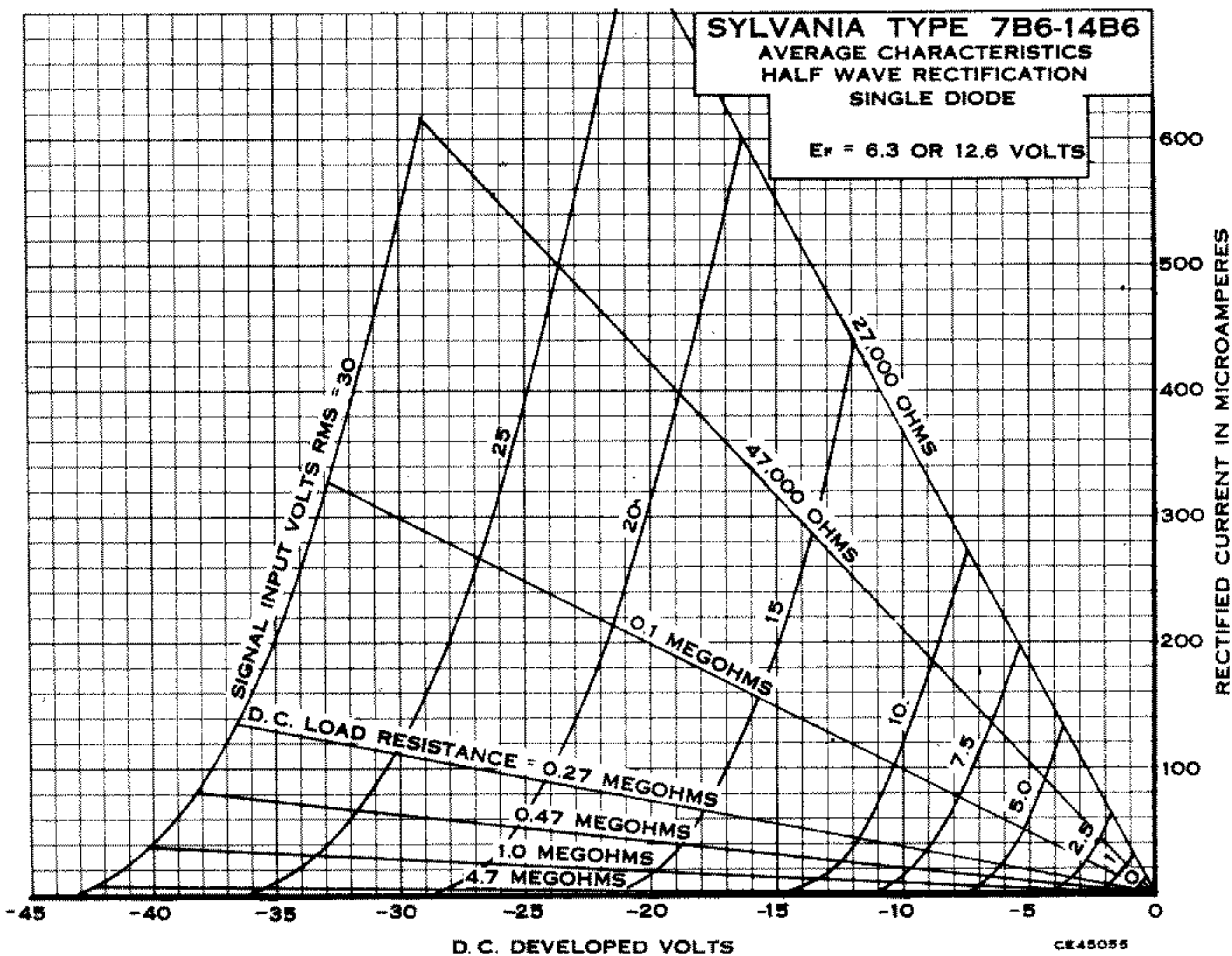
Heater Voltage.....	6.3	6.3 Volts
Heater Current.....	0.3	0.3 Ampere
Plate Voltage.....	100	250 Volts
Grid Voltage.....	-1	-2 Volts
Plate Current.....	0.4	0.9 Ma.
Plate Resistance.....	110000	91000 Ohms
Mutual Conductance.....	900	1100 $\mu$ mhos
Amplification Factor.....	100	100

## APPLICATION

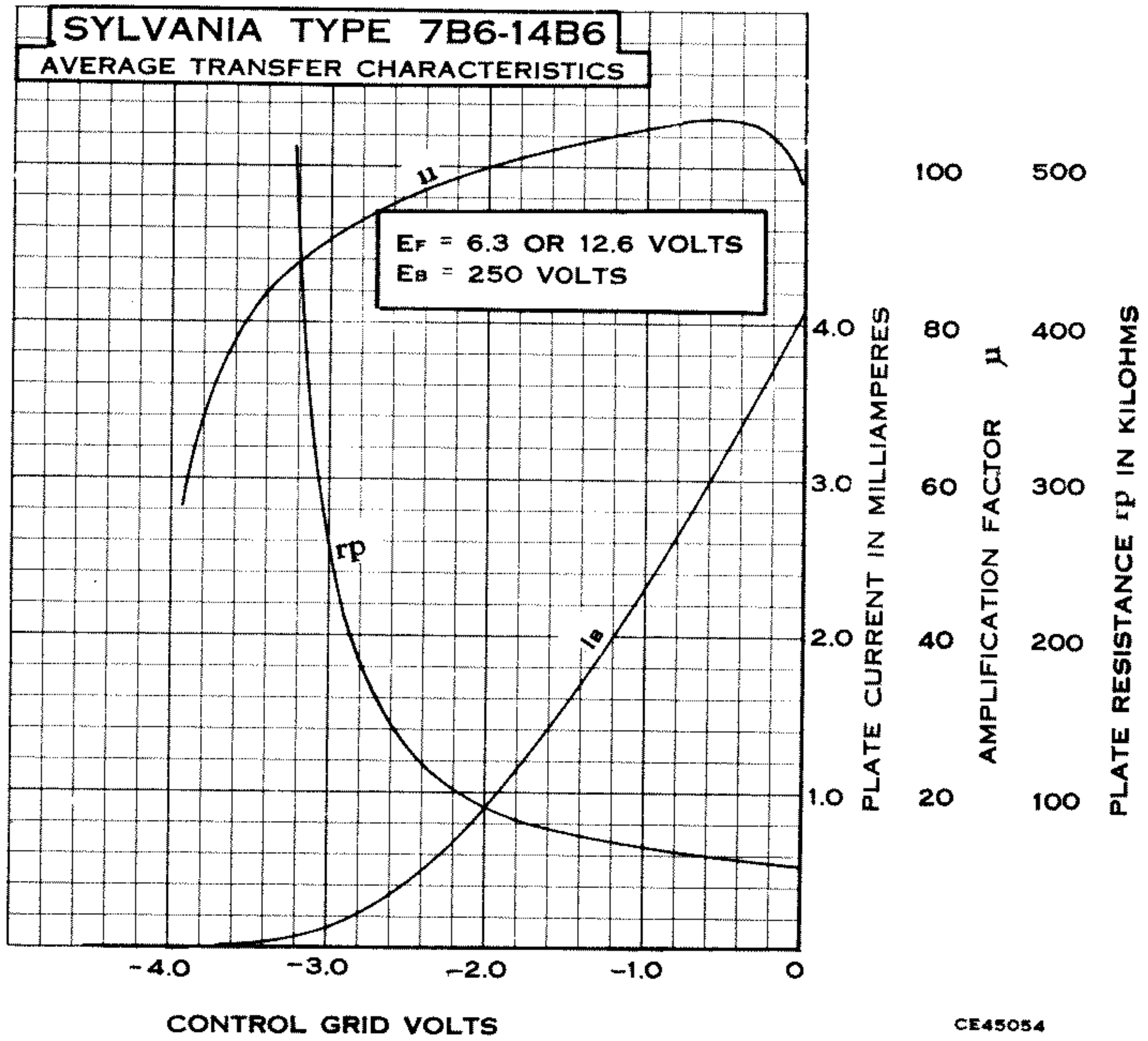
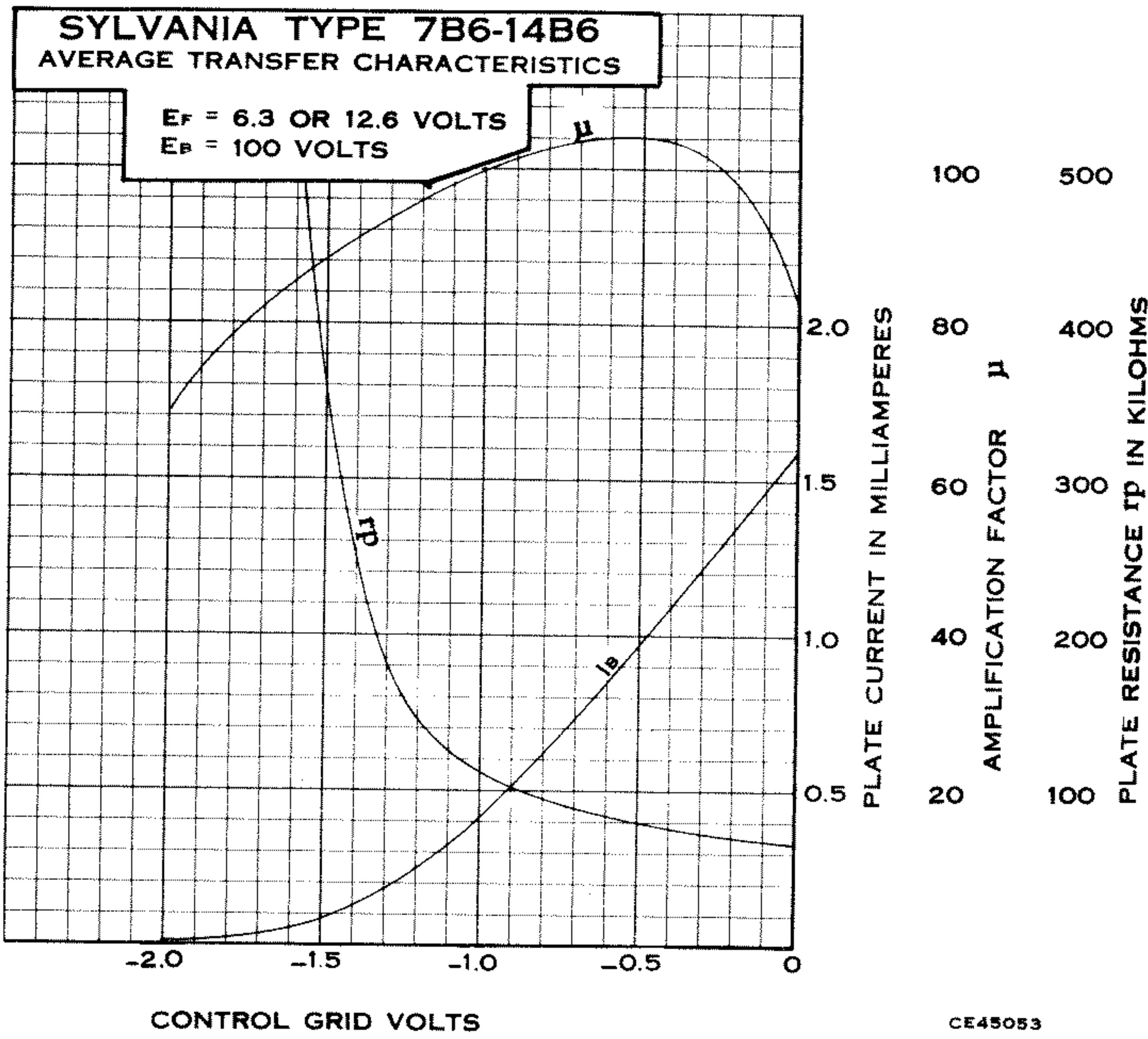
Sylvania Type 7B6 is a duodiode high-mu triode suitable for detector audio amplifier service in AC or auto receivers. For AC-DC receivers, the Types 7C6 or 14B6, having lower heater current ratings, should prove more satisfactory.

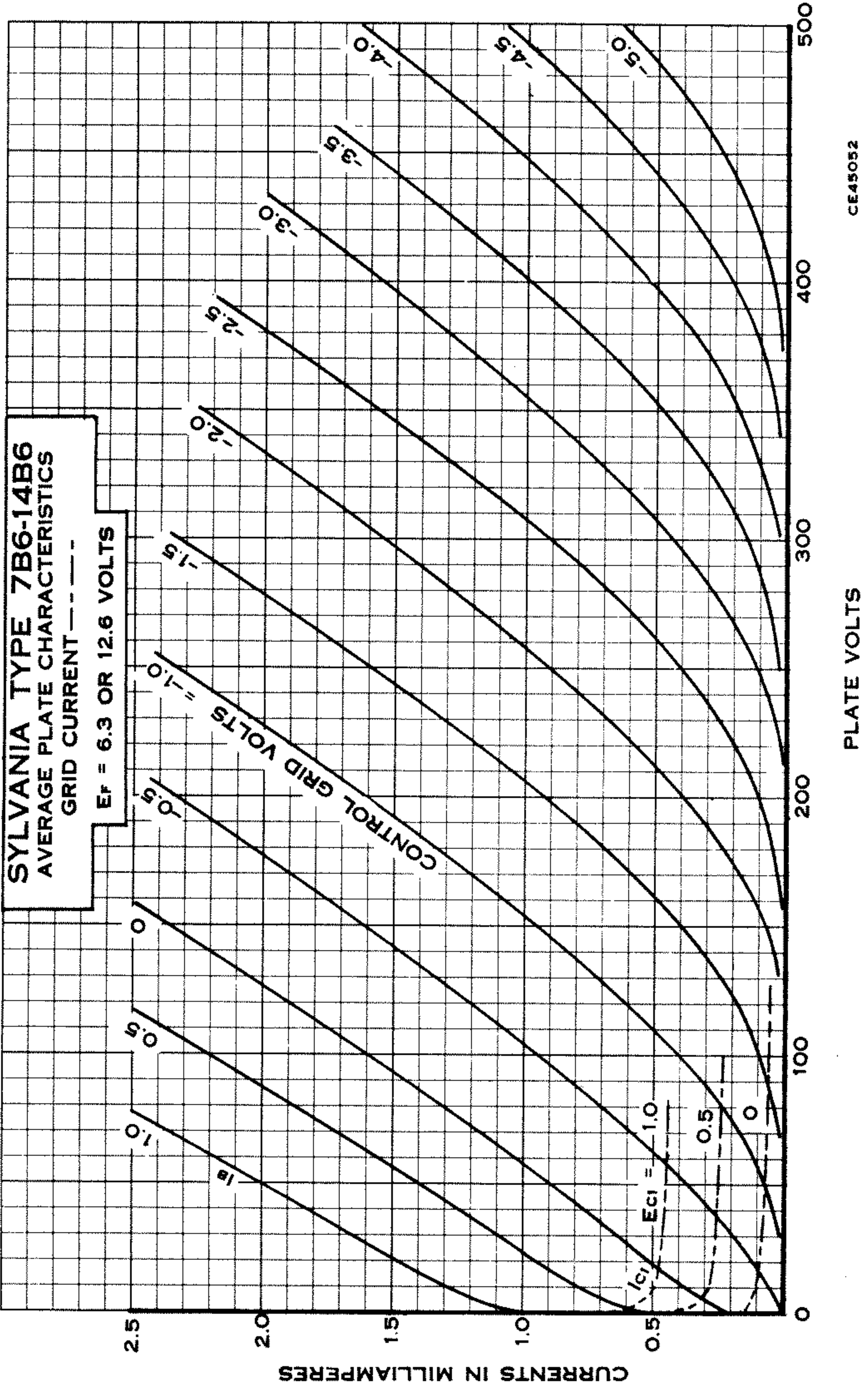
The diodes are independent of each other and of the triode unit except that the cathode structure is common to all. Type 7K7 or 7X7 should be considered if it is necessary to have more complete separation between the various sections.

Resistance coupled amplifier data will be found in the table on Page 48.



# 7B6 (Cont.)





CE45052

PLATE VOLTS