



Excellence in Electronics

TRIODE

TYPE CK5842

The CK5842 (417A) is a heater-cathode type, high transconductance triode of miniature construction. The design features of low noise, low interelectrode capacitances, and very high transconductance make this type suitable for service in wide band amplifier stages, and especially grounded-grid operation. The useful frequency range extends from low to very high frequencies. The heater-cathode construction is designed to withstand many thousands of cycles of intermittent operation.

MECHANICAL DATA

ENVELOPE: T-6½ Glass

BASE: Miniature Button 9—Pin.

TERMINAL CONNECTIONS:

Pin 1 Plate	Pin 6 Cathode
Pin 2 No Connection	Pin 7 Grid
Pin 3 Heater	Pin 8 Grid
Pin 4 Grid	Pin 9 Heater
Pin 5 Grid	

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (μfds)

Plate to Cathode and Heater
Input (k to g + h)
Output (p to g + h)

Without Shield

0.55 max.
9.0
1.8

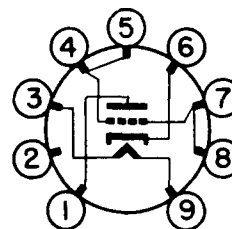
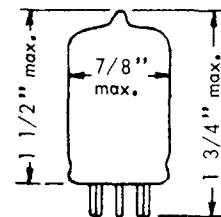
RATINGS—ABSOLUTE MAXIMUM VALUES:

Heater Voltage (ac or dc)
Plate Voltage
Plate Dissipation
Cathode Current
Heater-Cathode Voltage
Bulb Temperature

6.3±10% volts
200 volts
4.5 watts
38 ma
55 volts
160 °C

CHARACTERISTICS AND TYPICAL OPERATION:

Heater Voltage	6.3	6.3 volts
Heater Current	0.3	0.3 ma
Plate Voltage	150	130 volts
Cathode Bias Resistance	60	360 ohms
Grid Voltage	0	+9 volts
Plate Current	25	27 ma
Plate Resistance	1700	1600 ohms
Transconductance	25,000	27000 umhos
Amplification Factor	43	43



BOTTOM VIEW

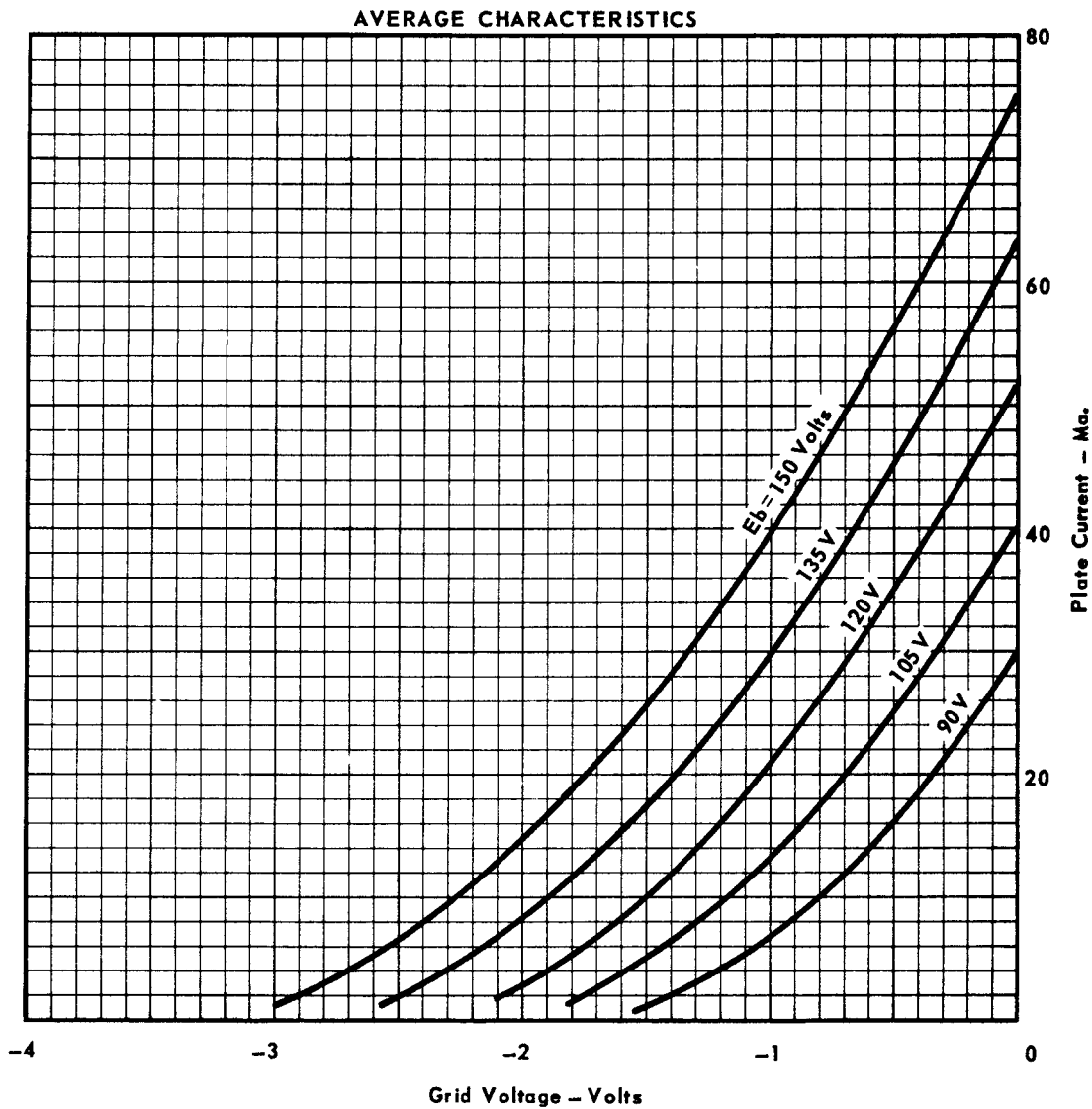
9V

Tentative Data

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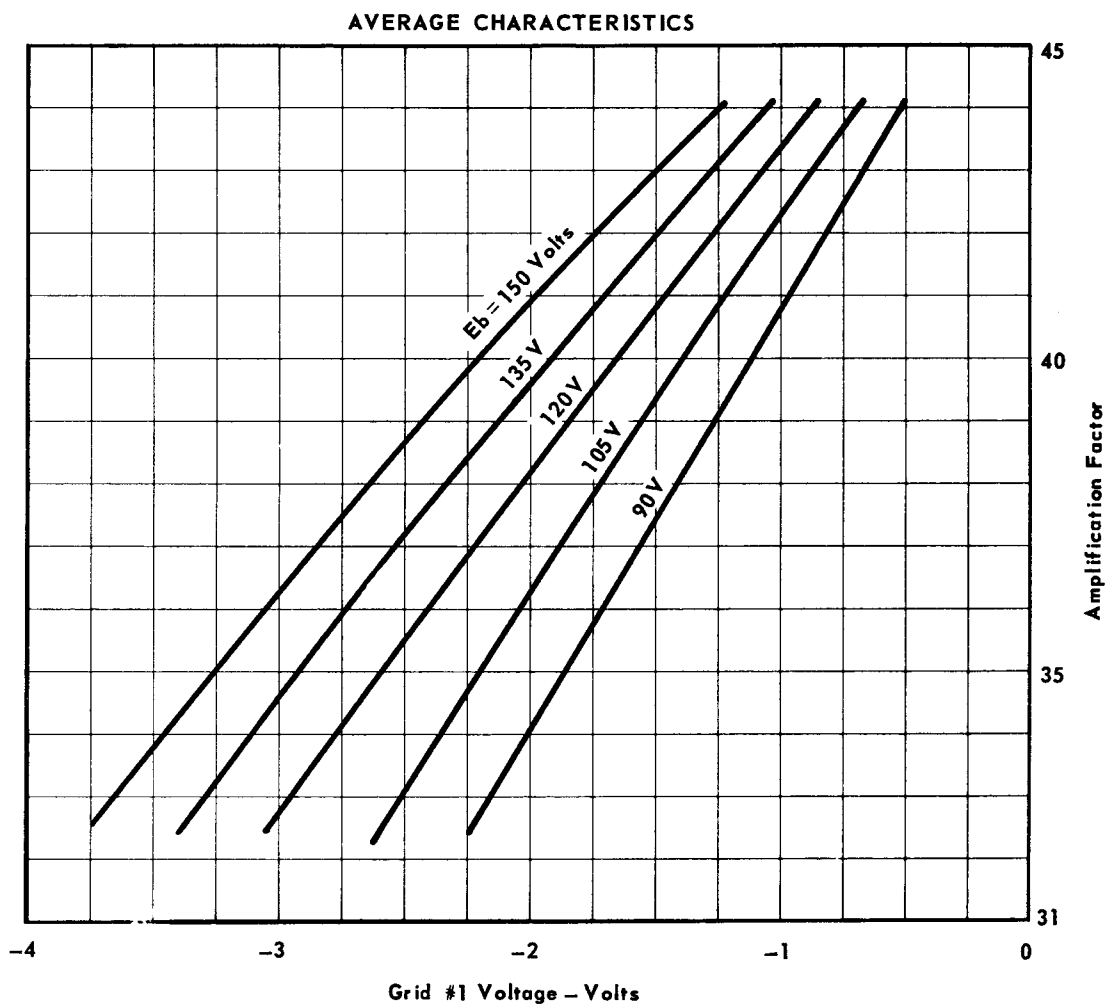


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RECEIVING TUBE AND SEMICONDUCTOR OPERATIONS

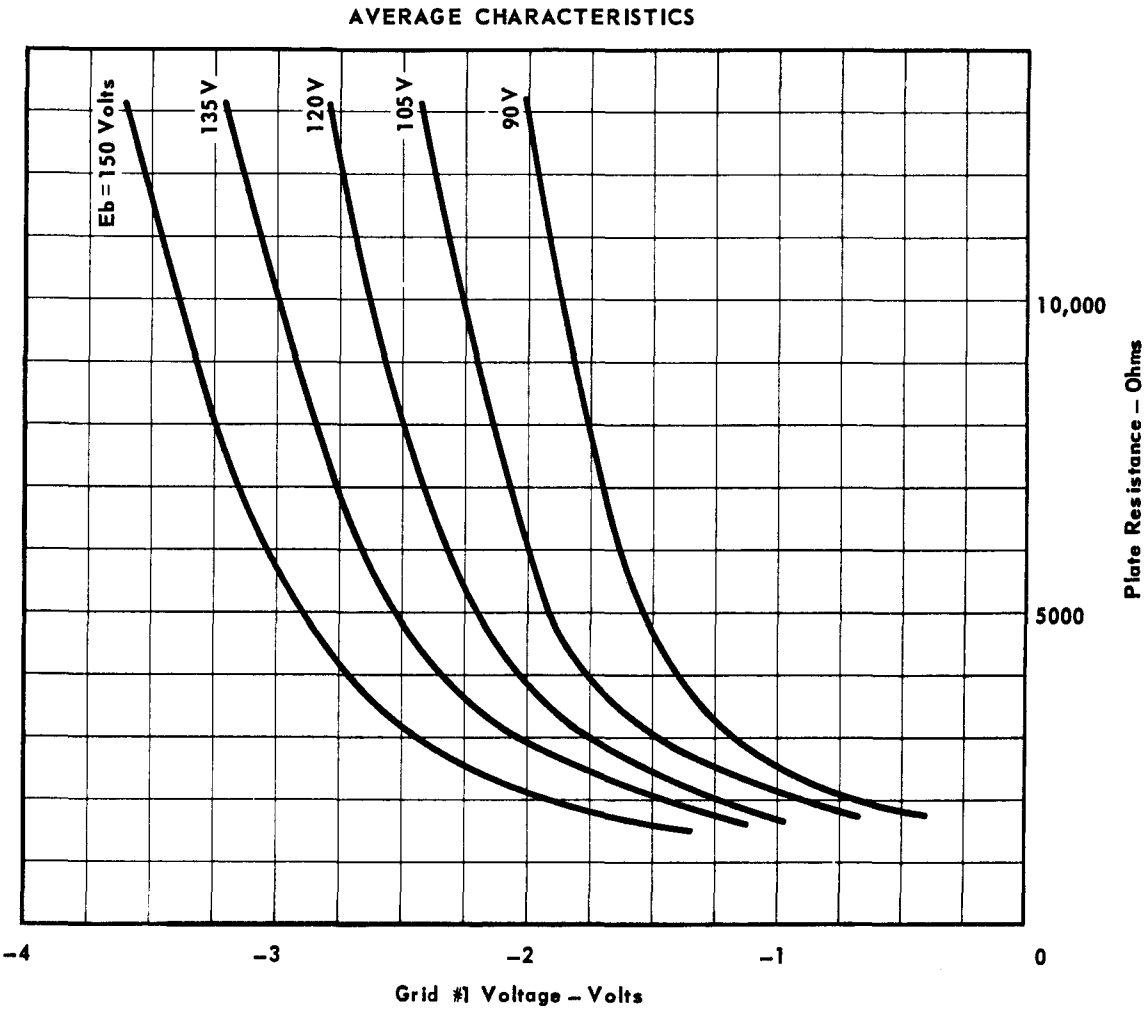


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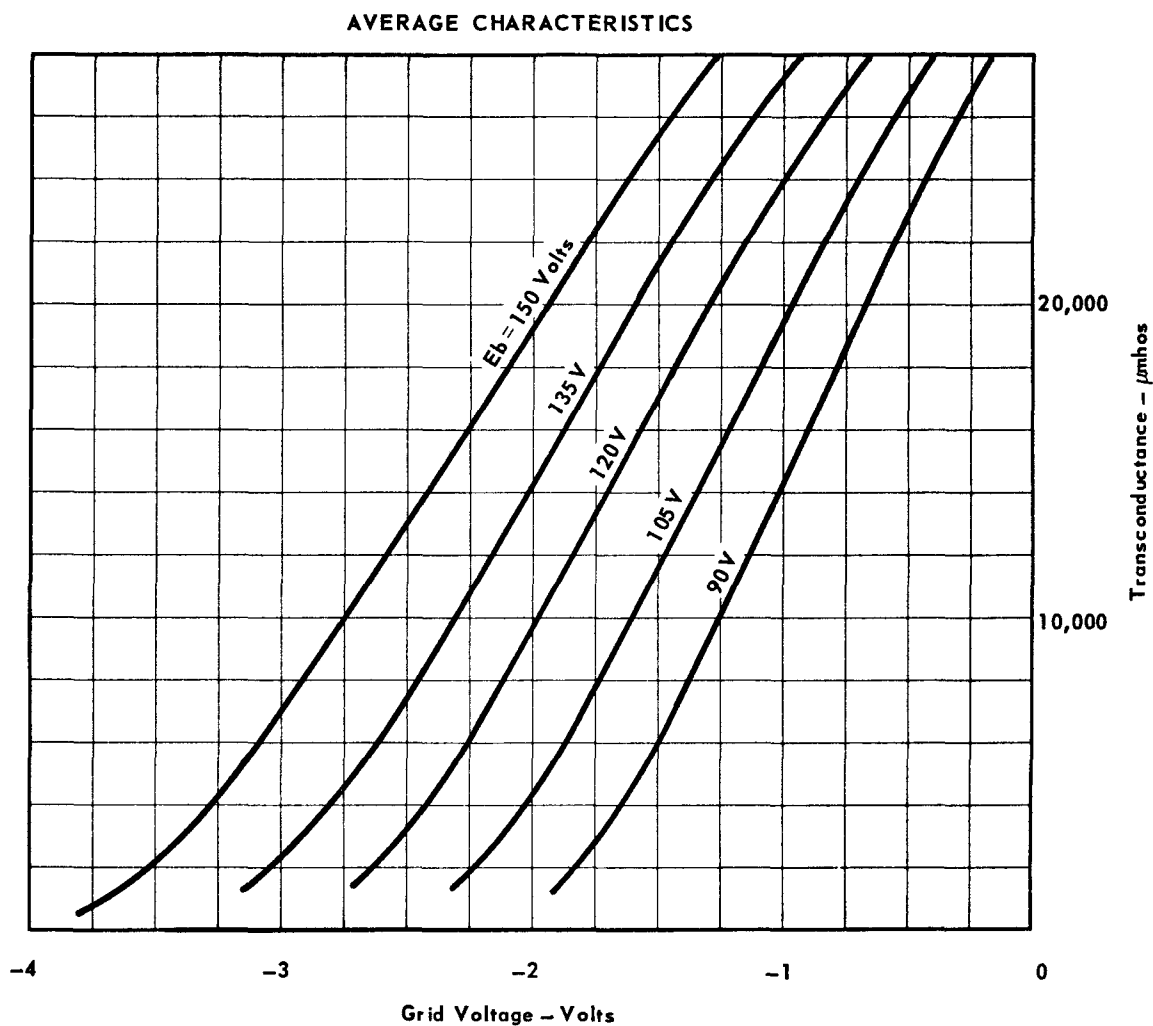


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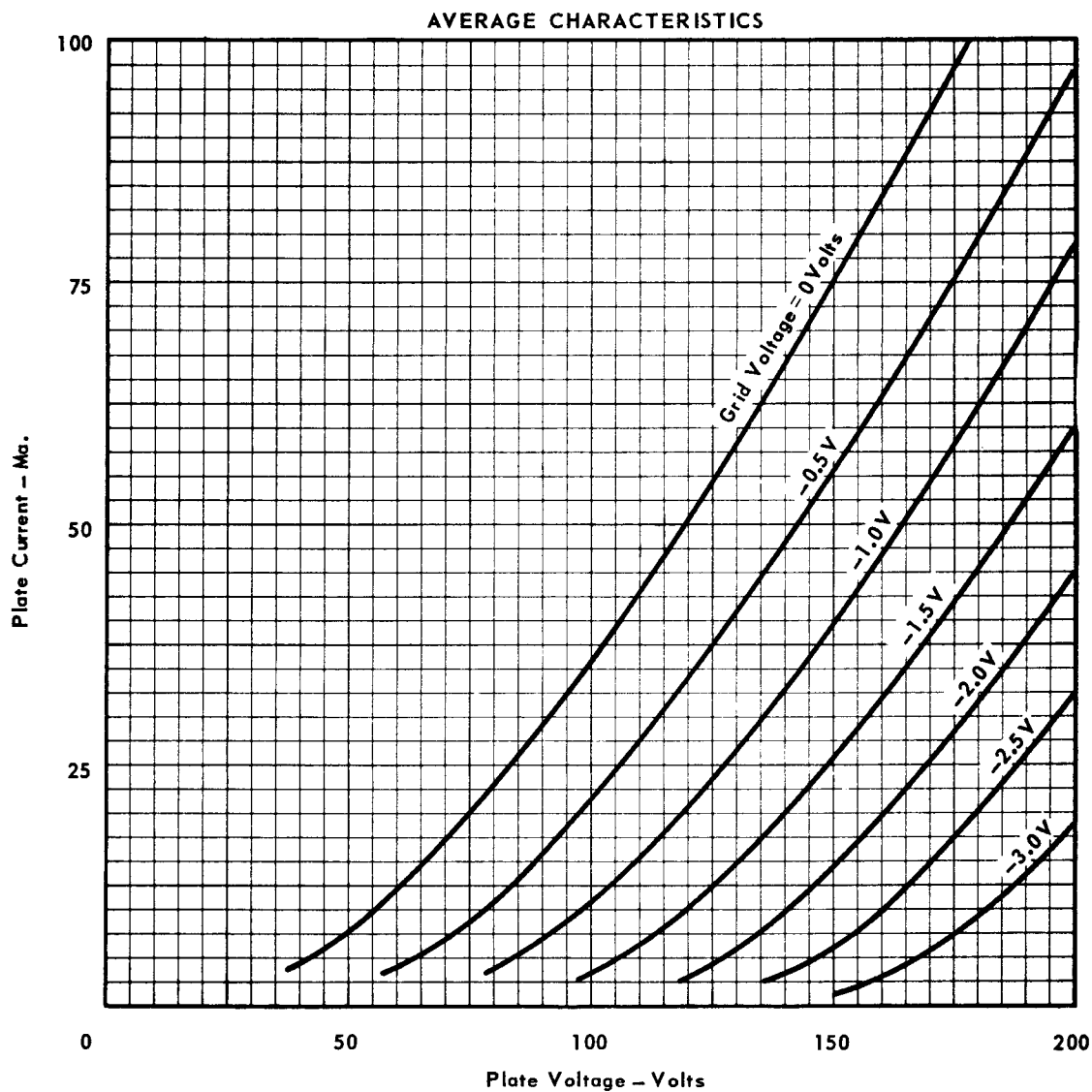


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