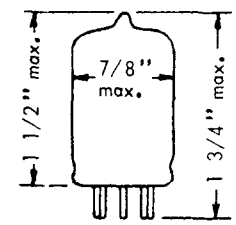
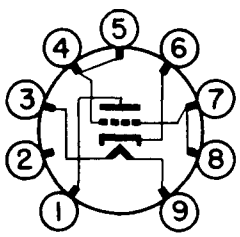
TRIODE

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.





BOTTOM VIEW

9V

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: (μμfds)

	Without Shield
Plate to Cathode and Heater	0.55 max.
Input (k to g + h)	9.0
Output (p to g + h)	1.8

RATINGS—ABSOLUTE MAXIMUM VALUES:

Heater Voltage (ac or dc)	6.3± 10% volts
Plate Voltage	200 volts
Plate Dissipation	4.5 watts
Cathode Current	38 ma
Heater-Cathode Voltage	55 volts
Bulb Temperature	160 °C

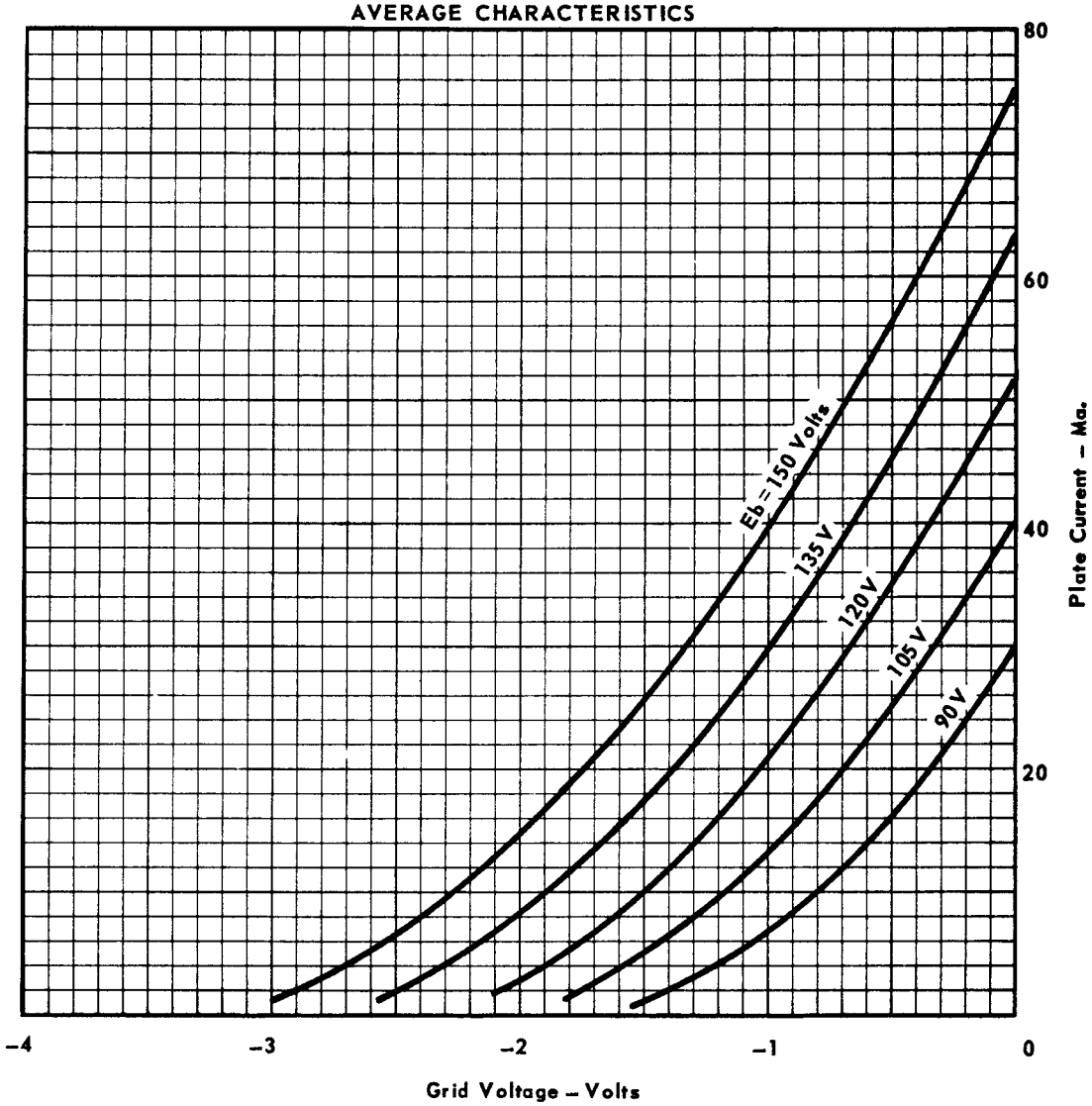
CHARACTERISTICS AND TYPICAL OPERATION:

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

Tentative Data

TRIODE

AVERAGE CHARACTERISTICS



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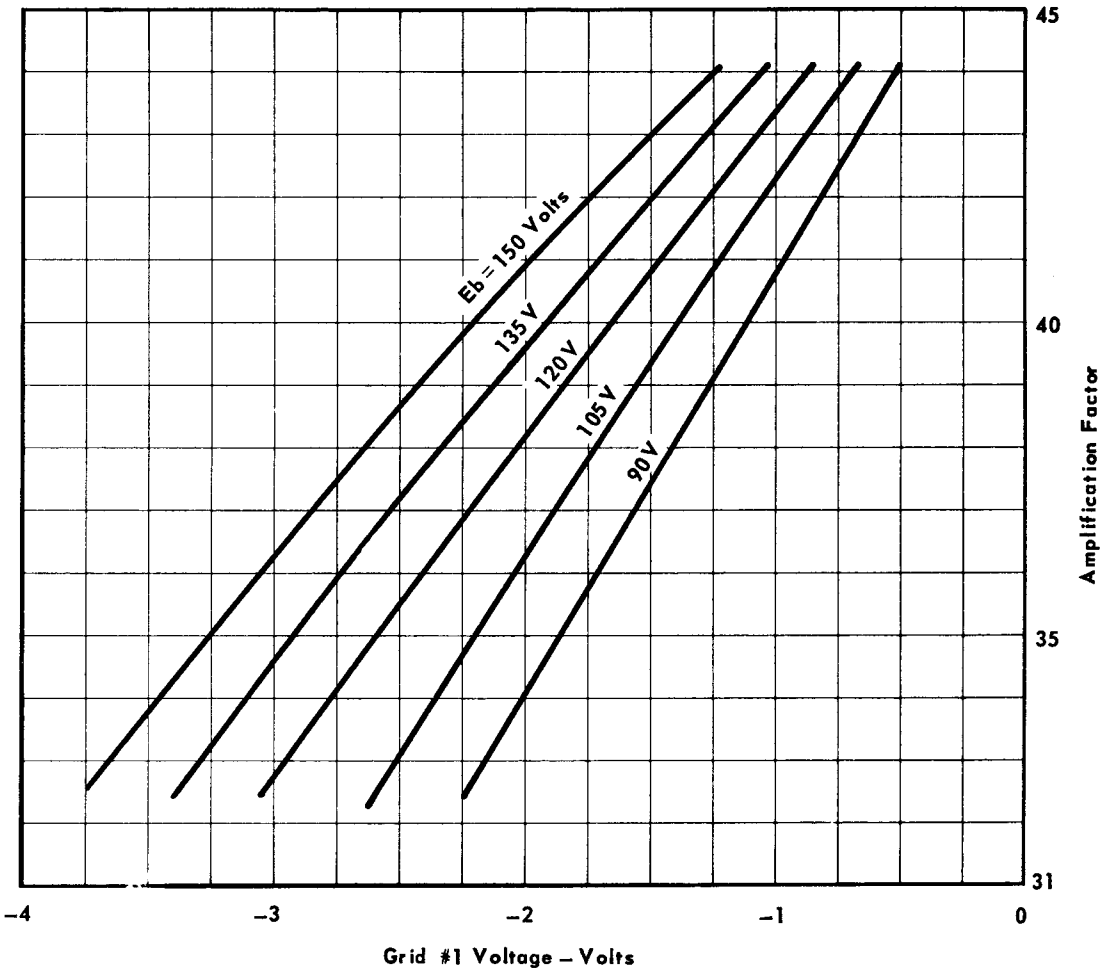

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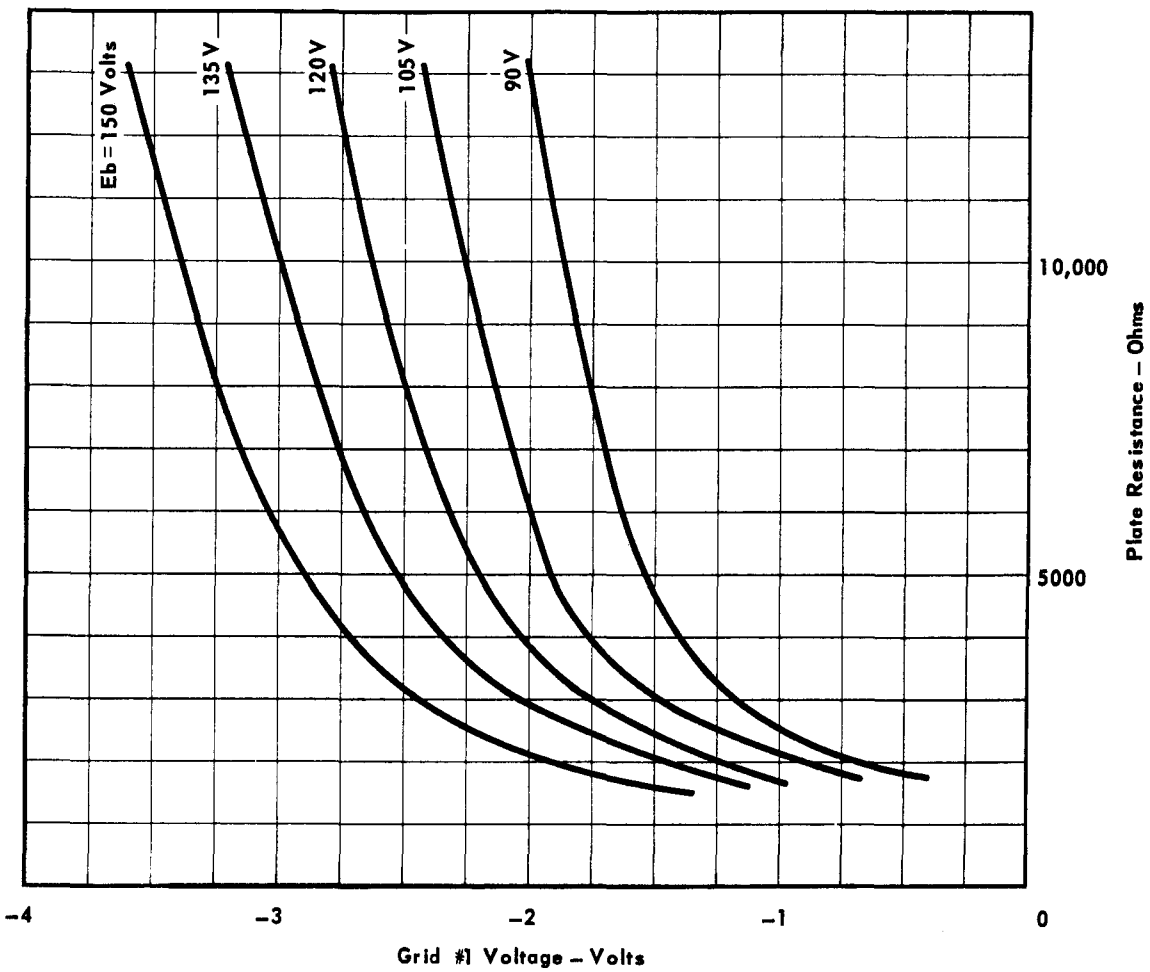

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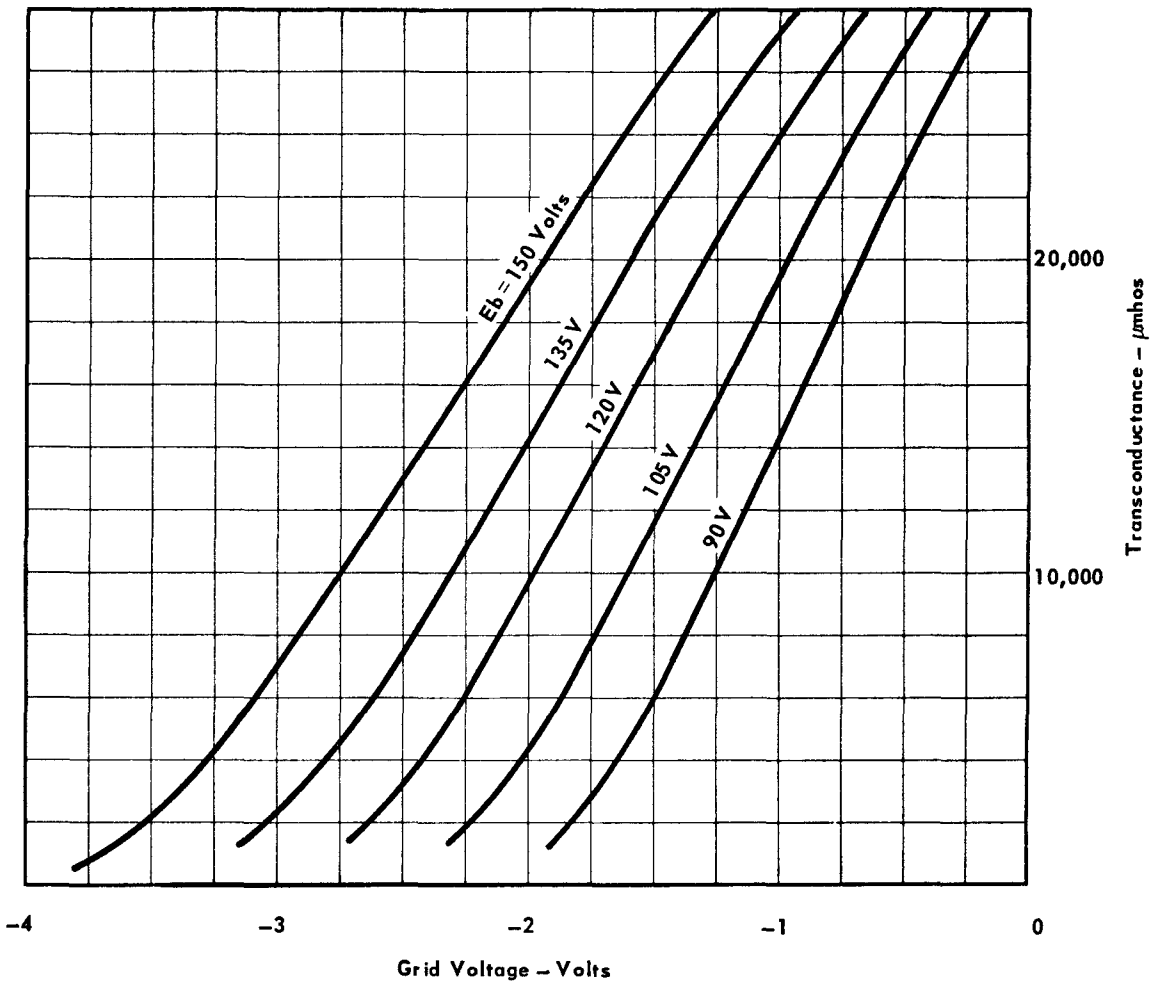

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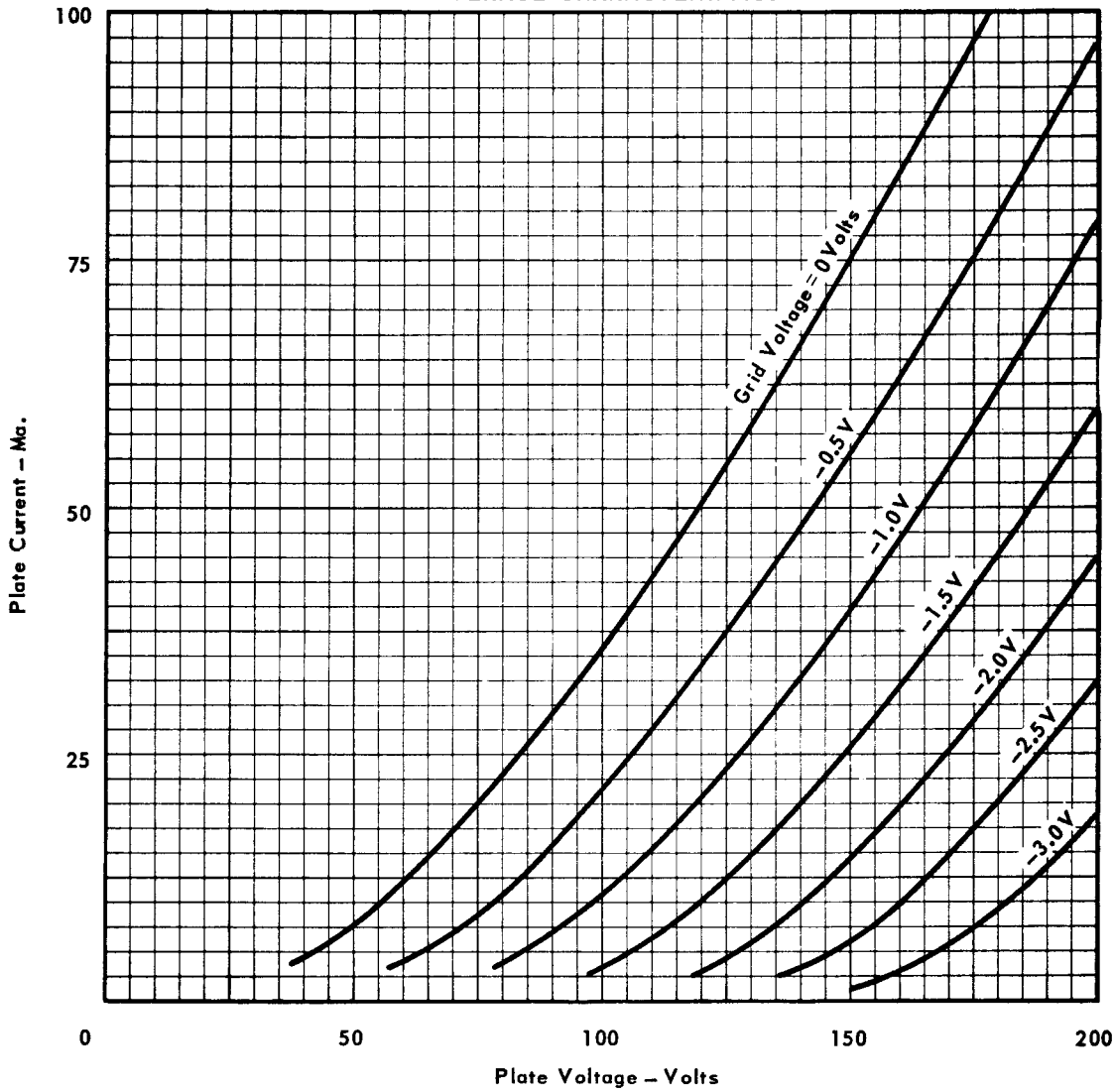
AVERAGE CHARACTERISTICS