

PENTODE

Western Electric

DESCRIPTION

The 373A is a filamentary type suppressor grid pentode. It is designed for use as an audio, carrier or radio-frequency voltage amplifier, oscillator or modulator.

CHARACTERISTICS

Filament Voltage, A-C	2.0 volts
Plate Current	2 milliamperes
Transconductance	1280 micromhos

$$\left. \begin{array}{l} E_b = E_{c2} = 150 \text{ volts;} \\ E_{c1} = -3 \text{ volts;} E_{c3} = 0 \end{array} \right\}$$

GENERAL CHARACTERISTICS

ELECTRICAL DATA

Filament Voltage, A-C	2.0 volts
Filament Current	250 milliamperes
Direct Interelectrode Capacitances	
Grid to Plate (maximum)	0.07 uuf
Input	5.9 uuf
Output	5.0 uuf

MECHANICAL DATA

Cathode	Coated Filament
Bulb	T11
Base ¹	Short intermediate shell, 7-pin octal
Mounting Position	Vertical — or horizontal with plane of filament vertical.

Dimensions and pin connections shown in outline drawing on Page 4

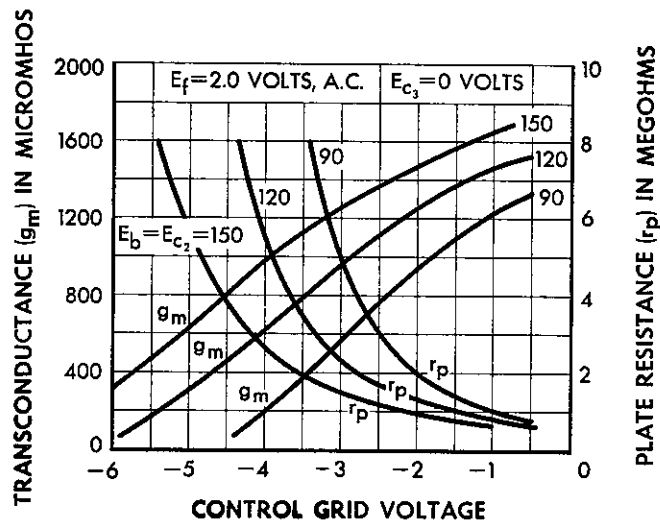
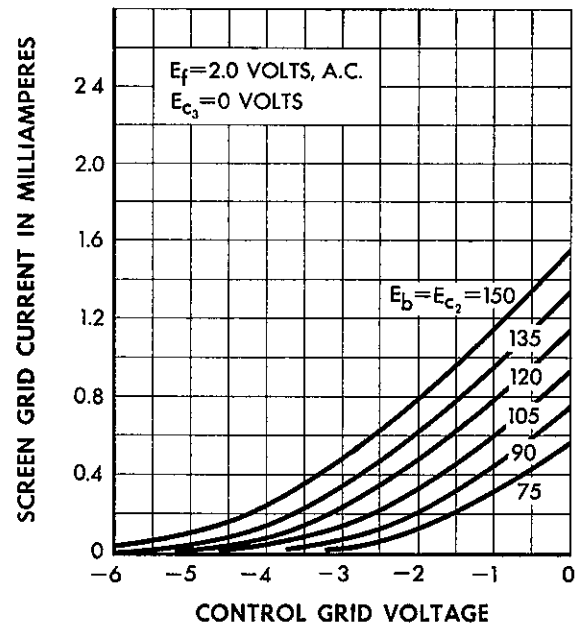
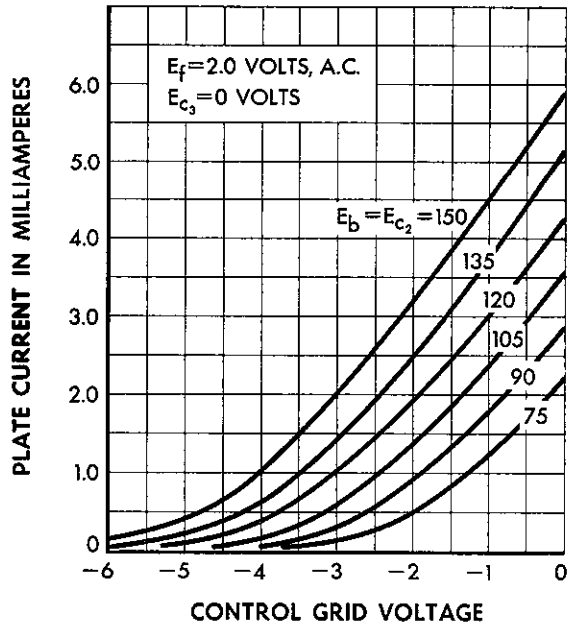
MAXIMUM RATINGS, Design-Center Values

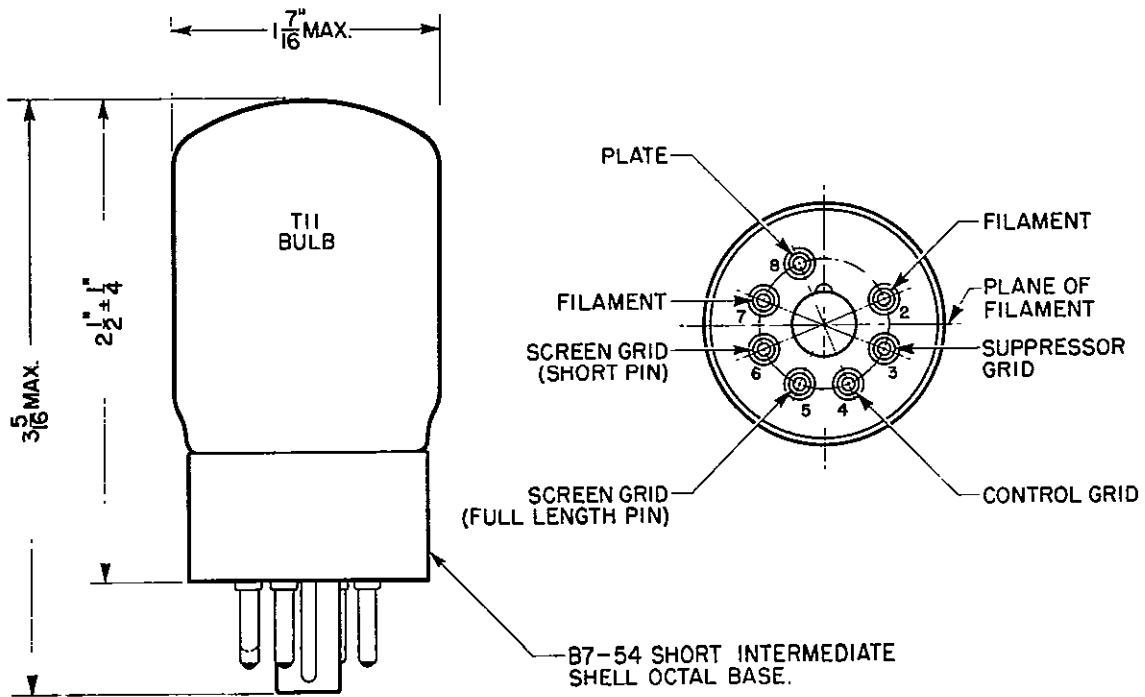
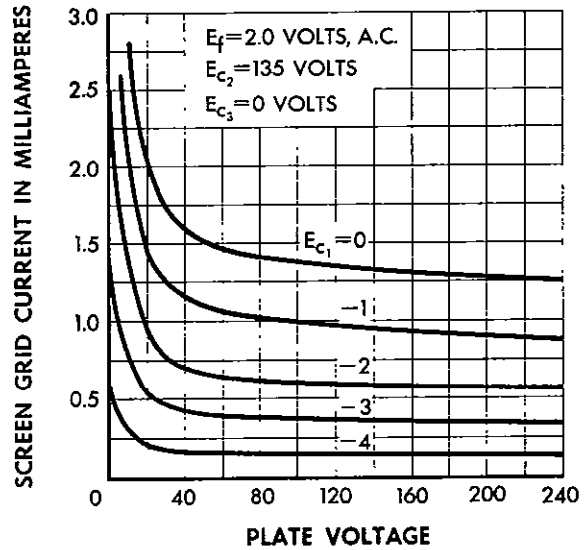
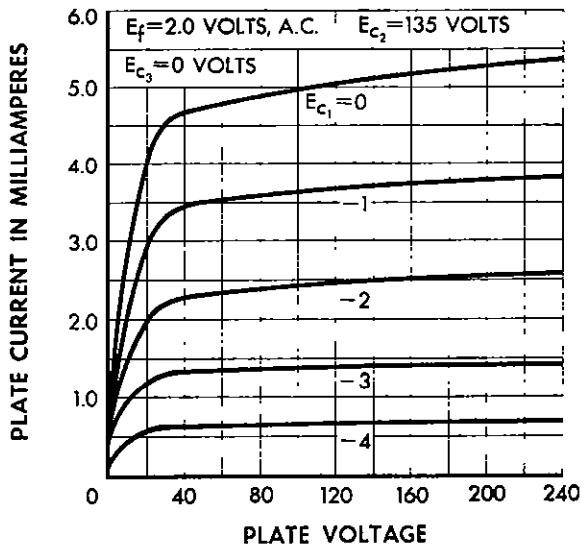
Plate Voltage	250 volts
Screen Grid Voltage	150 volts
Plate Dissipation	2 watts
Screen Grid Dissipation	0.45 watt

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

Filament Voltage, A-C	2.0	2.0 volts
Plate Voltage	150	250 volts
Screen Grid Voltage	150	150 volts
Control Grid Voltage	-3	-3 volts
Suppressor Grid Voltage	0	0 volts
Plate Current	2.0	2.1 milliamperes
Screen Grid Current	0.47	0.45 milliampere
Peak A-F Signal Voltage	2	2 volts
Plate Resistance	1.5	2.0 megohms
Transconductance	1280	1310 micromhos
Load Resistance	100000	250000 ohms
Power Output	120	160 milliwatts
Total Harmonic Distortion	8.5	7.8 per cent
Control Grid Voltage, Approximate, for 10 Microamperes Plate Current	-7.0	-7.4 volts

1. Pin #6 is connected internally to pin #5 and is approximately 3/32 inch shorter than the other pins to minimize noise when changing tubes while in service.





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A development of Bell Telephone Laboratories, the research laboratories of the American Telephone and Telegraph Company and the Western Electric Company.