
ELECTRON TUBE DATA SHEET
WESTERN ELECTRIC 337A ELECTRON TUBE



DESCRIPTION

The 337A is a variable-mu pentode of the unipotential cathode type. The suppressor grid is connected to a separate base pin to provide flexibility in usage. This tube is designed for use as an audio, carrier or radio-frequency amplifier, oscillator or modulator.

CHARACTERISTICS

Heater Voltage	10 volts
Plate Current	$\left\{ \begin{array}{l} E_b = 180 \text{ volts;} \\ E_{c2} = 135 \text{ volts;} \\ E_{c1} = -3 \text{ volts} \end{array} \right\}$ 6.3 milliamperes
Transconductance 1740 micromhos

GENERAL CHARACTERISTICS

ELECTRICAL DATA

Heater Voltage, A-C or D-C			10 volts
Heater Current			320 milliamperes
Direct Interelectrode Capacitances	WITHOUT EXTERNAL SHIELD	WITH EXTERNAL SHIELD (RMA#311)	
Grid to Plate (maximum)	0.016	*0.009	uuf
Input	5.9	* 6.5	uuf
Output	12.4	* 13.0	uuf

* With external shield (RMA#311) Connected to Cathode (Pin #5)

MECHANICAL DATA

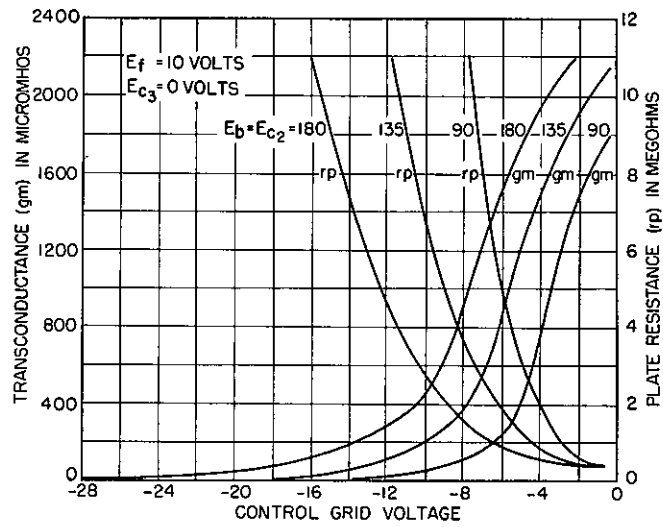
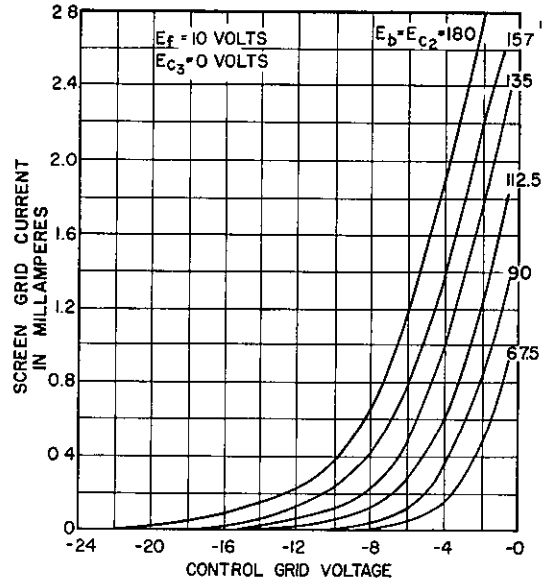
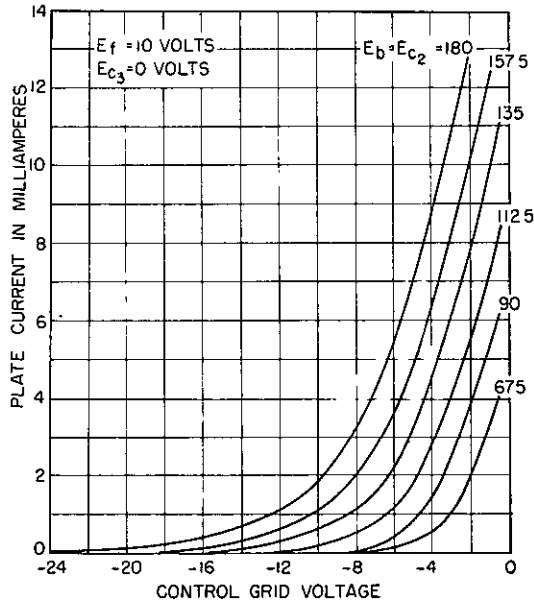
Cathode	Coated unipotential
Bulb	ST12
Base	Small 6-pin
Mounting position	Any
Dimensions and pin connections shown in outline drawing on Page 5	

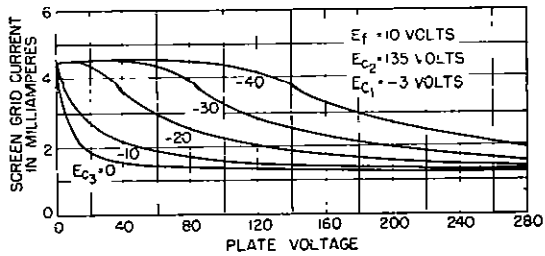
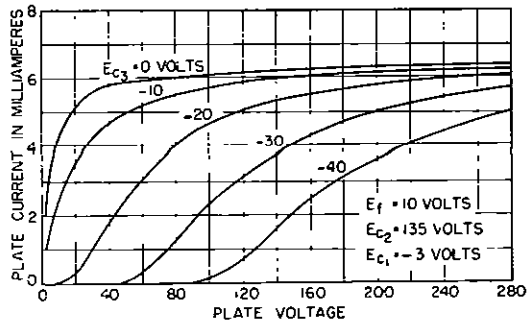
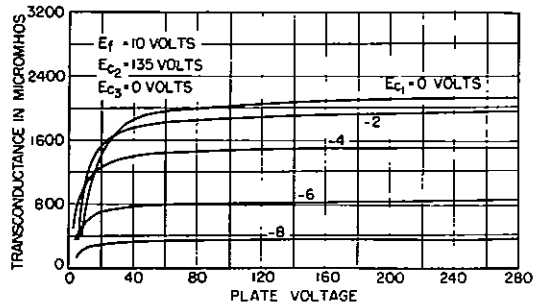
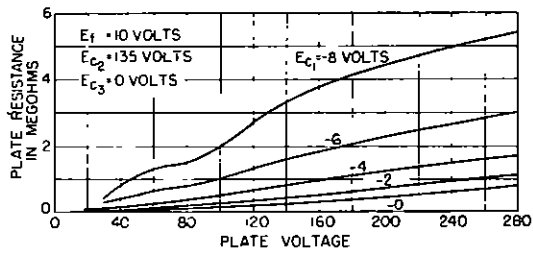
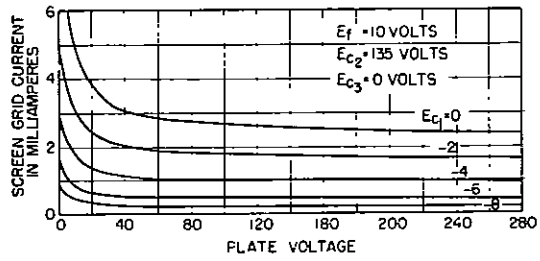
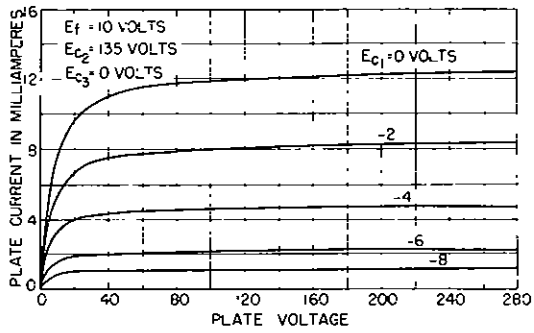
MAXIMUM RATINGS, DESIGN-CENTER VALUES

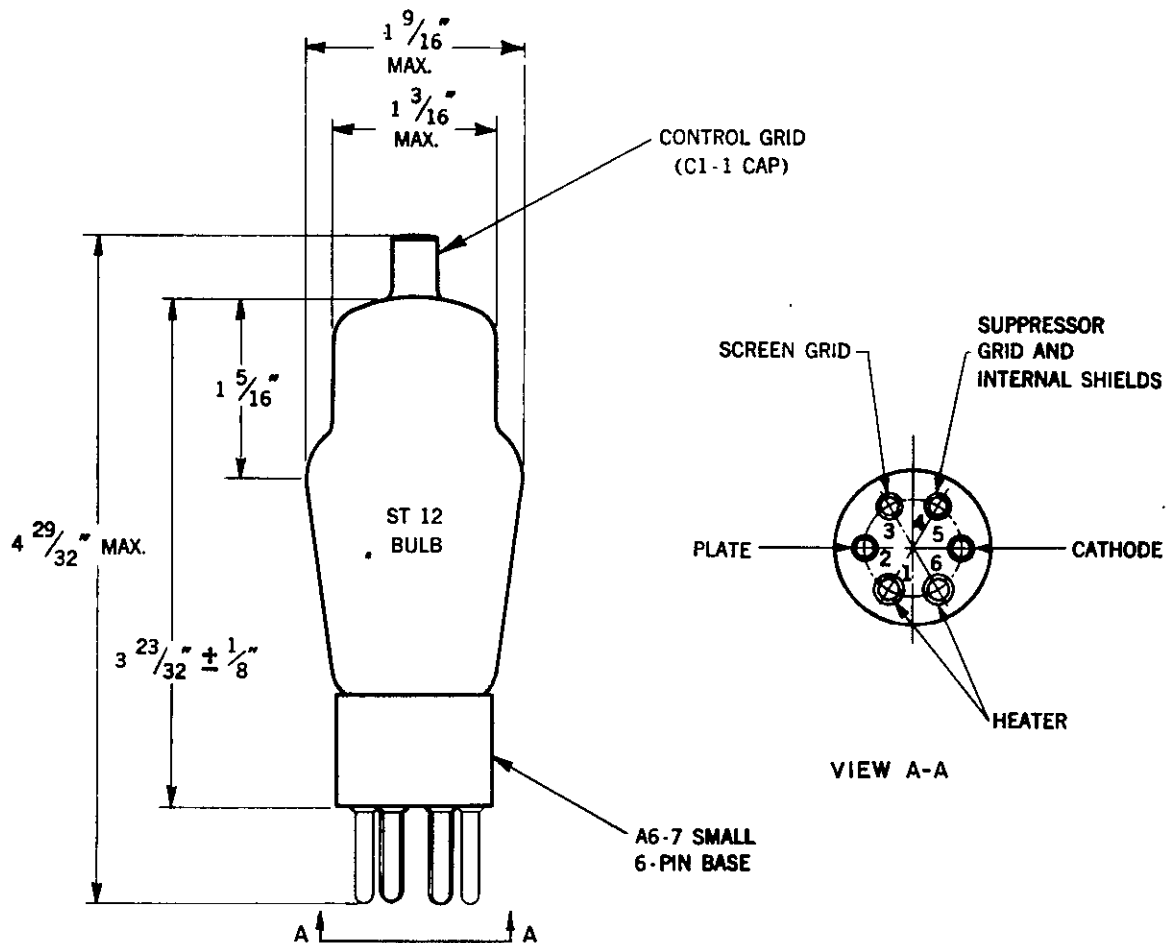
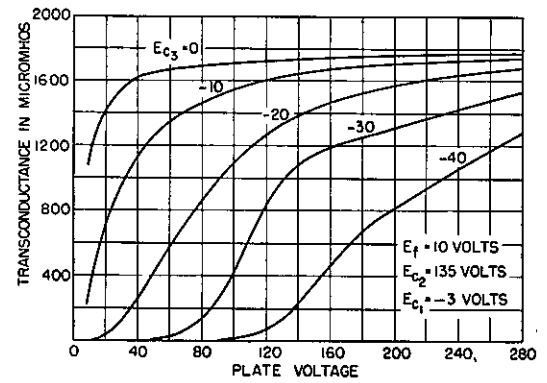
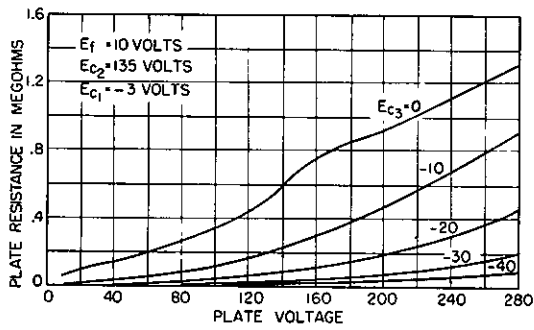
Plate Voltage	250 volts
Screen Grid Voltage	180 volts
Plate Dissipation	2 watts
Screen Grid Dissipation	0.4 watt
Cathode Current	10 milliamperes
Heater-Cathode Voltage	150 volts

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

Plate Voltage	135	180	250 volts
Screen Grid Voltage	135	135	135 volts
Control Grid Voltage	-3	-3	-3 volts
Suppressor Grid Voltage	0	0	0 volts
Plate Current	6.2	6.3	6.35 milliamperes
Screen Grid Current	1.3	1.27	1.24 milliamperes
Peak A-F Signal Voltage	3.0	1.5	2.0 volts
Plate Resistance	0.55	0.85	1.16 megohms
Transconductance	1730	1740	1750 micromhos
Load Resistance	30000	100000	100000 ohms
Power Output	230	150	300 milliwatts
Total Harmonic Distortion	6.0	7.0	8.0 per cent
Control Grid Voltage (aproximate) for Transconductance of 10 micromhos	-18.5	-18.5	-18.5 volts







Western Electric

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