



6AS7-G

Description and Rating

POWER-AMPLIFIER TWIN TRIODE

GENERAL DESCRIPTION

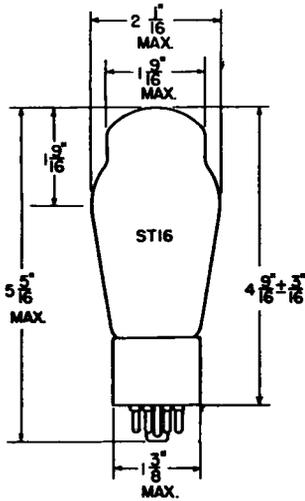
Principal Application: The 6AS7-G is a glass type twin triode designed especially for service as a power amplifier. The low- μ and high plate current rating of the tube adapt it particularly well to

booster operation in the scanning circuit of television receivers. It may be used as a regulator tube in direct-current power supplies.

Cathode: Coated Unipotential
Heater Voltage (A-C or D-C) 6.3 Volts
Heater Current 2.5 Amperes

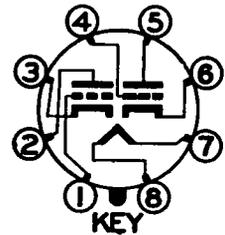
Envelope: ST-16 Glass
Base: BB-11 Medium Shell Octal 8-Pin, Phenolic
Mounting Position: Any

PHYSICAL DIMENSIONS



RMA 16-3

BASING DIAGRAM



RMA 8BD
BOTTOM VIEW

TERMINAL CONNECTIONS

- Pin 1 - Grid of Triode Number 2
- Pin 2 - Plate of Triode Number 2
- Pin 3 - Cathode of Triode Number 2
- Pin 4 - Grid of Triode Number 1
- Pin 5 - Plate of Triode Number 1
- Pin 6 - Cathode of Triode Number 1
- Pin 7 - Heater
- Pin 8 - Heater

MAXIMUM RATINGS

EACH TRIODE UNIT

DESIGN CENTER VALUES:

Peak Inverse Plate Voltage*	1700	Volts
Plate Voltage	250	Volts
Plate Current.**	125	Milliamperes
Plate Dissipation	13.0	Watts
Peak Heater-Cathode Voltage		
Heater negative with respect to cathode	300	Volts
Heater positive with respect to cathode	300	Volts
Grid-Circuit Resistance		
For cathode-bias operation#	1.0	Megohm

CHARACTERISTICS AND TYPICAL OPERATION

D-C AMPLIFIER: EACH TRIODE UNIT

Plate-Supply Voltage	135	Volts
Cathode-bias Resistor	250	Ohms
Amplification Factor	2.0	

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Plate Resistance	280	Ohms
Transconductance	7000	Micromhos
Plate Current **	125	Milliamperes

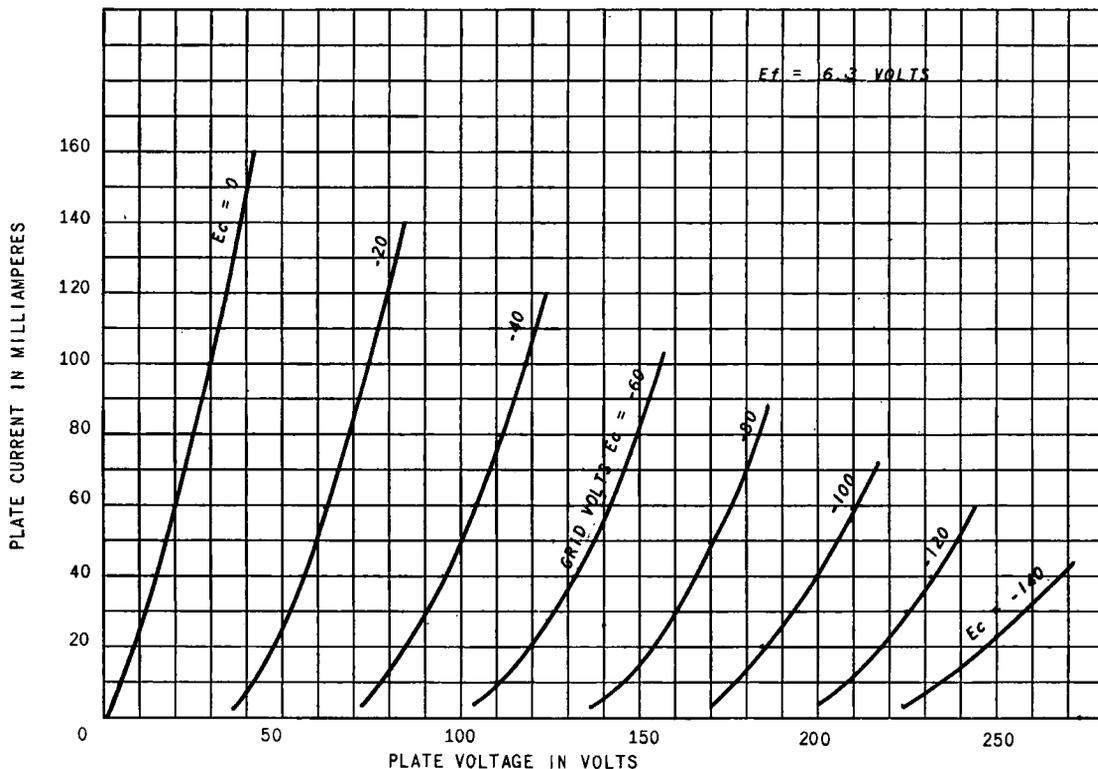
Operation with fixed bias is not recommended.

* The duty cycle of the peak inverse voltage pulse must not exceed 15% of one scanning cycle and its duration must be limited to 10 microseconds.

** The tube should not be subjected to full load-current until 15 seconds after heater voltage is applied. If this precaution is not observed, serious damage to the cathode may result.

AVERAGE PLATE CHARACTERISTICS

EACH TRIODE UNIT



TUBE DEPARTMENT

GENERAL ELECTRIC

Schenectady 5, N. Y.