



6AS7-GA

TWIN TRIODE

6AS7-GA
ET-T931
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DESCRIPTION AND RATING

The 6AS7-GA is a low-mu twin triode designed primarily for service as a series regulator tube in d-c power supplies. Except for the use of a T-12 envelope, the 6AS7-GA is identical to the 6AS7-G.

GENERAL

ELECTRICAL

Cathode—Coated Unipotential

Heater Voltage, AC or DC 6.3 Volts
Heater Current 2.5 Amperes

Direct Interelectrode Capacitances, approximate*

Grid to Plate, Each Section	7.5 μmf
Input, Each Section	6.5 μmf
Output, Each Section	2.2 μmf
Heater to Cathode, Each Section	7.0 μmf
Grid to Grid	0.5 μmf
Plate to Plate	1.9 μmf

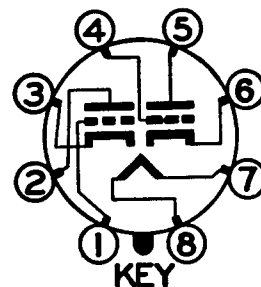
MECHANICAL

Mounting Position—Any

Envelope—T-12, Glass

Base—B8-110, Short Medium-Shell Octal 8-Pin

BASING DIAGRAM

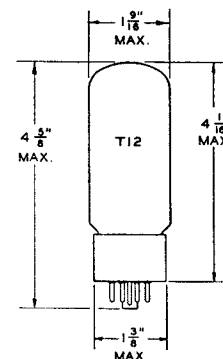


RETMA 8BD

TERMINAL CONNECTIONS

Pin 1—Grid (Section 2)
Pin 2—Plate (Section 2)
Pin 3—Cathode (Section 2)
Pin 4—Grid (Section 1)
Pin 5—Plate (Section 1)
Pin 6—Cathode (Section 1)
Pin 7—Heater
Pin 8—Heater

PHYSICAL DIMENSIONS



GENERAL ELECTRIC

MAXIMUM RATINGS**DC AMPLIFIER SERVICE
DESIGN-CENTER VALUES, EACH SECTION**

Plate Voltage	250	Volts
Plate Dissipation	13	Watts
Plate Current	125	Milliamperes
Heater-Cathode Voltage		
Heater Positive with Respect to Cathode	300	Volts
Heater Negative with Respect to Cathode	300	Volts
Grid-Circuit Resistance		
With Cathode-Bias†	1.0	Megohm

**BOOSTER SCANNING SERVICE‡
DESIGN-CENTER VALUES, EACH SECTION**

Peak Inverse Plate Voltage	1700	Volts
Plate Dissipation	13	Watts
Plate Current	125	Milliamperes
Heater-Cathode Voltage		
Heater Positive with Respect to Cathode	300	Volts
Heater Negative with Respect to Cathode	300	Volts
Grid-Circuit Resistance		
With Cathode-Bias†	1.0	Megohm

CHARACTERISTICS AND TYPICAL OPERATION**AVERAGE CHARACTERISTICS, EACH SECTION**

Plate Voltage	135	Volts
Cathode-Bias Resistor	250	Ohms
Amplification Factor	2.0	
Plate Resistance, approximate	280	Ohms
Transconductance	7000	Micromhos
Plate Current	125	Milliamperes

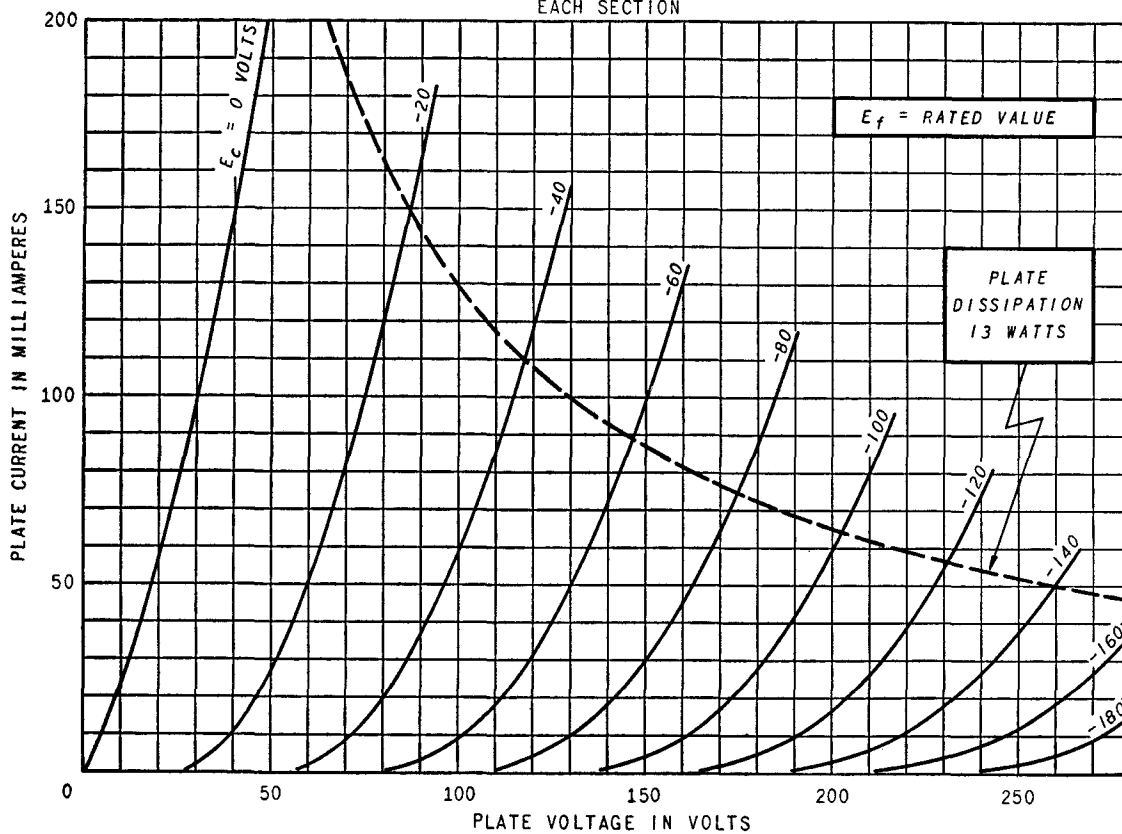
* Without external shield.

† Operation with fixed bias is not recommended.

‡ For operation in a 525-line, 30-frame television system as described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission. The duty cycle of the voltage pulse must not exceed 15 percent of one scanning cycle.

AVERAGE PLATE CHARACTERISTICS

EACH SECTION



AVERAGE TRANSFER CHARACTERISTICS

EACH SECTION

