



Electronic
TUBE

6X5-GT Description and Rating

TWIN DIODE

FOR FULL-WAVE POWER RECTIFIER APPLICATIONS

The 6X5-GT is a full-wave high-vacuum rectifier designed for use in the power supply of automobile and a-c radio receivers.

GENERAL

Cathode - Coated Unipotential
 Heater Voltage, A-C or D-C 6.3 Volts
 Heater Current 0.6 Amperes
 Envelope - T-9, Glass
 Base - B5-82 or B6-8, Intermediate Shell Octal
 or B5-85 or B6-60, Short Intermediate Shell Octal
 Mounting Position - Any

MAXIMUM RATINGS

DESIGN-CENTER VALUES

Peak Inverse Plate Voltage 1250 Volts
 Steady-State Peak Plate Current per Plate 210 Milliampères
 D-C Output Current 70 Milliampères
 Heater-Cathode Voltage
 Heater Positive with Respect to Cathode 450 Volts
 Heater Negative with Respect to Cathode 450 Volts

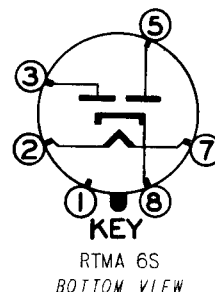
CHARACTERISTICS AND TYPICAL OPERATION

FULL-WAVE RECTIFIER

	Capacitor Input Filter	Choke Input Filter	
A-C Plate-Supply Voltage per Plate, RMS	325	450	Volts
Filter Input Capacitor	4	---	Microfarads
Filter Input Choke	---	8	Henrys
Total Effective Plate-Supply			
Impedance per Plate	150	---	Ohms
D-C Output Current	70	70	Milliampères
D-C Output Voltage at Filter Input			
For D-C Output Current of 35 Milliampères	405	385	Volts
For D-C Output Current of 70 Milliampères	370	380	Volts
Tube Voltage Drop			
At 70 Milliampères D-C per Plate	22		Volts

* Pin 1 omitted on bases B5-82 and B5-85.

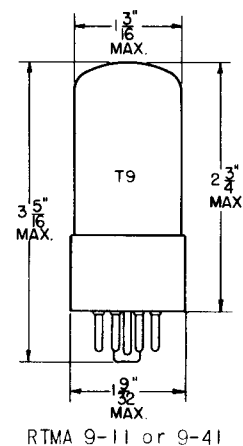
BASING DIAGRAM



TERMINAL CONNECTIONS

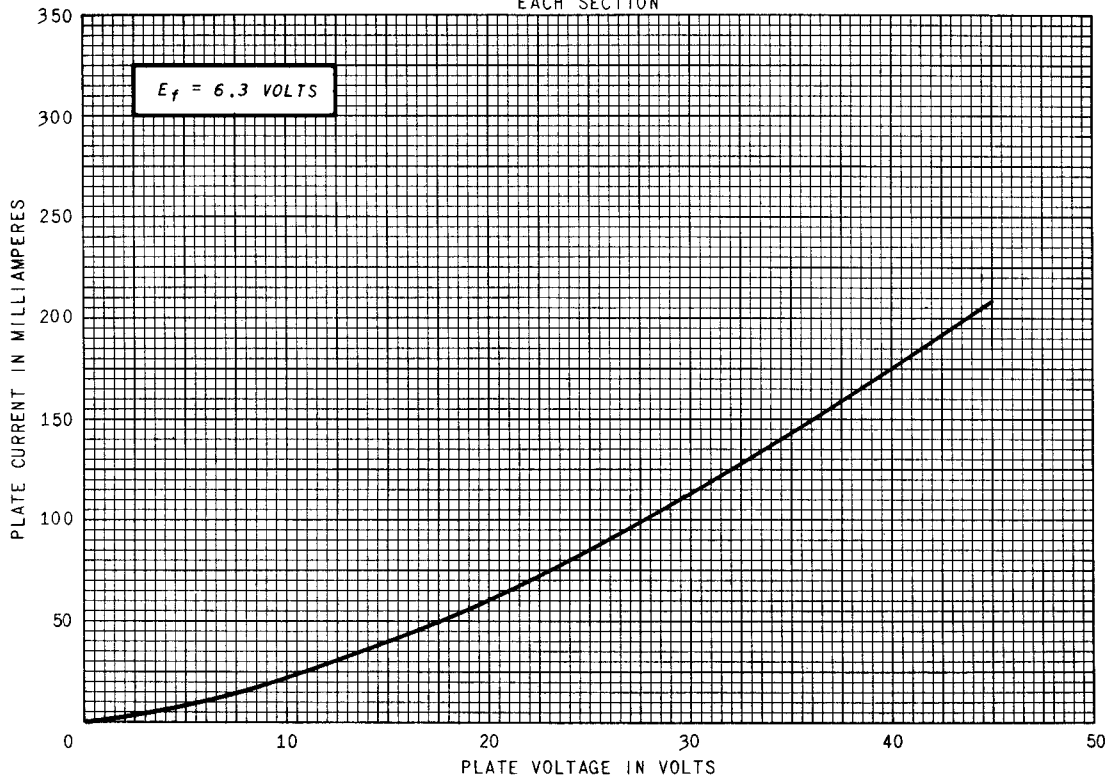
- Pin 1 - No Connection*
- Pin 2 - Heater
- Pin 3 - Plate Number 2
- Pin 5 - Plate Number 1
- Pin 7 - Heater
- Pin 8 - Cathode

PHYSICAL DIMENSIONS



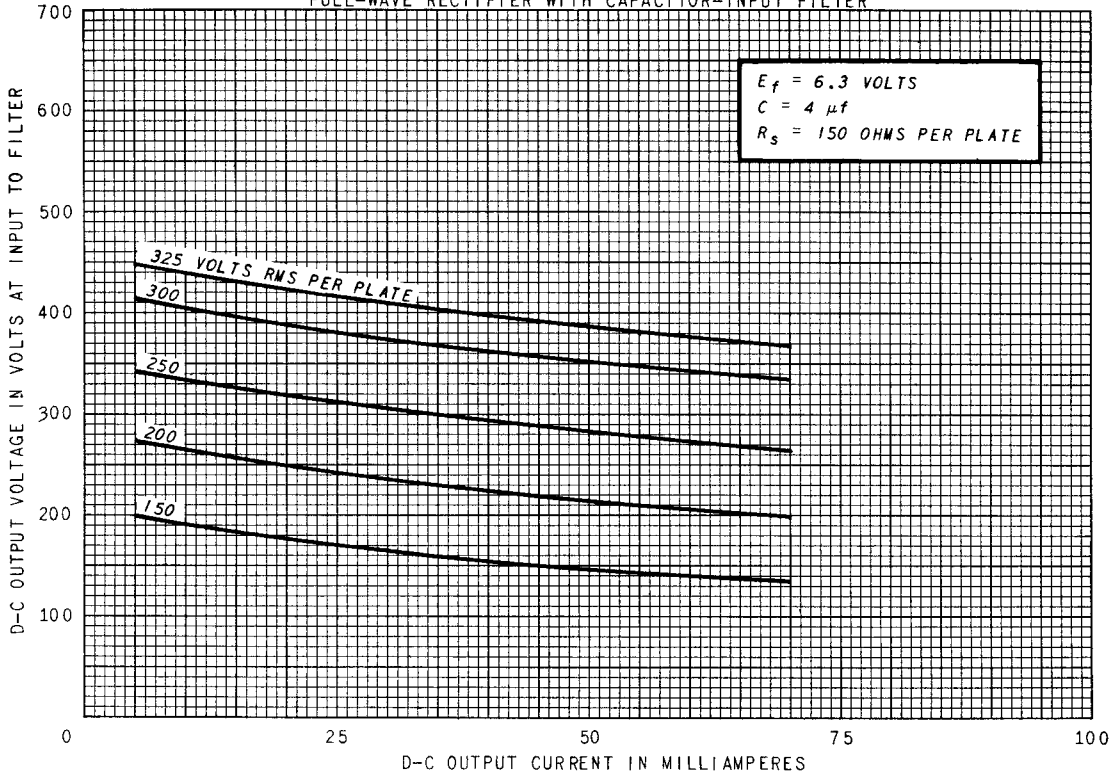
AVERAGE PLATE CHARACTERISTICS

EACH SECTION



OPERATION CHARACTERISTICS

FULL-WAVE RECTIFIER WITH CAPACITOR-INPUT FILTER



OPERATION CHARACTERISTICS

FULL-WAVE RECTIFIER WITH CHOKE-INPUT FILTER

