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5V4-GA

TWIN DIODE

FOR FULL-WAVE POWER-RECTIFIER APPLICATIONS

DESCRIPTION AND RATING

The 5V4-GA is a high-vacuum rectifier intended for use in full-wave applications. The tube incorporates an indirectly heated cathode which is internally connected to the heater. Except for the use of a straight-sided T-12 envelope, the 5V4-GA is identical to the 5V4-G.

GENERAL

ELECTRICAL

Cathode—Coated Unipotential
 Heater Voltage, AC or DC 5.0 Volts
 Heater Current 2.0 Amperes

MECHANICAL

Mounting Position—Any
 Envelope—T-12, Glass
 Base—B5-15, Medium-Shell Octal 5-Pin
 or B5-121, Short-Medium-Shell Octal 5-Pin

MAXIMUM RATINGS

RECTIFIER SERVICE—DESIGN-CENTER VALUES

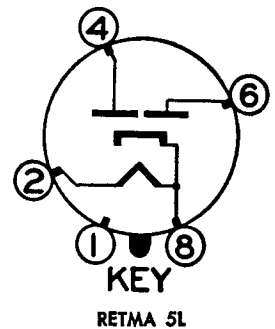
Peak Inverse Plate Voltage 1400 Volts
 AC Plate-Supply Voltage per Plate, RMS
 For Capacitor-Input Filter 375 Volts
 For Choke-Input Filter 500 Volts
 Steady-State Peak Plate Current per Plate 525 Milliamperes
 Transient Peak Plate Current per Plate,
 Maximum Duration 0.2 Second 3.5 Amperes
 DC Output Current 175 Milliamperes

CHARACTERISTICS AND TYPICAL OPERATION

FULL-WAVE RECTIFIER

	Capacitor- Input Filter	Choke- Input Filter	
AC Plate-Supply Voltage per Plate, RMS	375	500	Volts
Filter Input Capacitor	10	Microfarads
Filter Input Choke	4	Henrys
Total Effective Plate-Supply Impedance per Plate	100	Ohms
DC Output Current	175	175	Milliamperes
DC Output Voltage at Filter Input	410	410	Volts
Tube Voltage Drop I _b = 175 Milliamperes DC per Plate	25		Volts

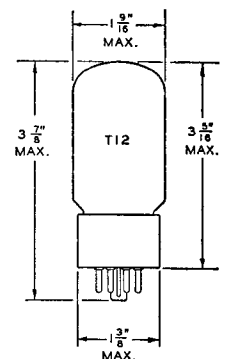
BASING DIAGRAM



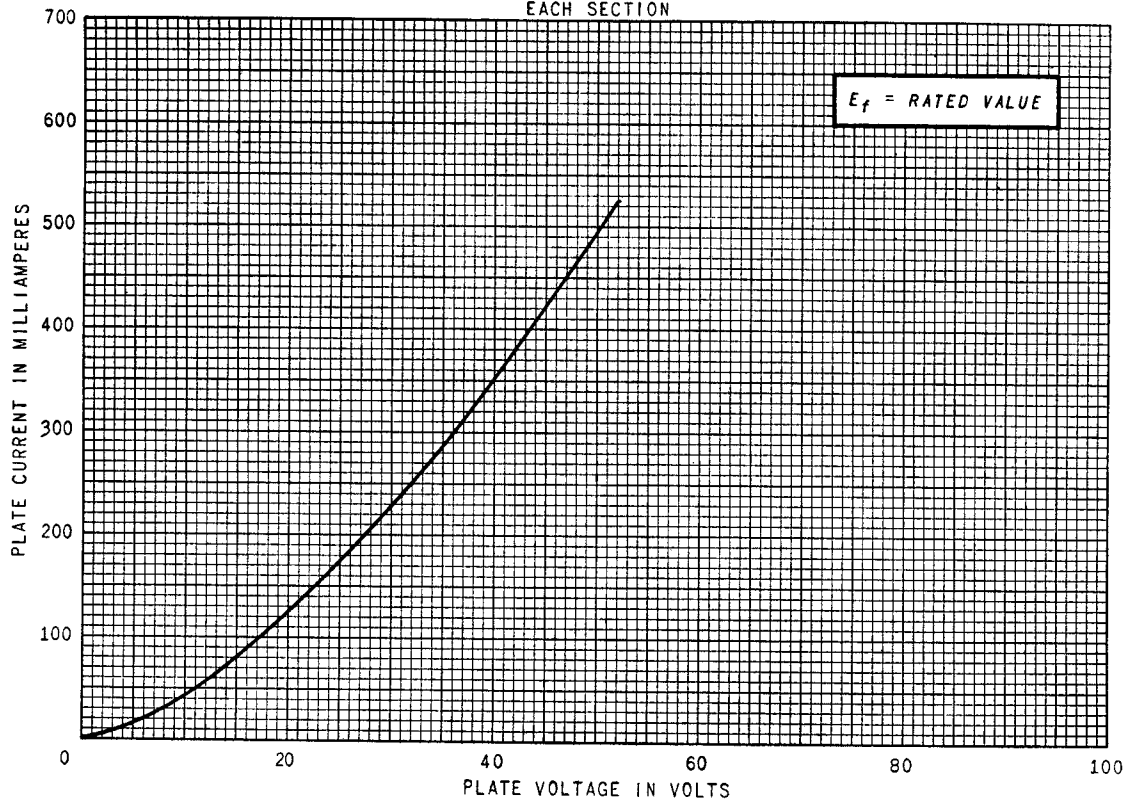
TERMINAL CONNECTIONS

- Pin 1—No Connection
- Pin 2—Heater
- Pin 4—Plate Number 2
- Pin 6—Plate Number 1
- Pin 8—Heater and Cathode

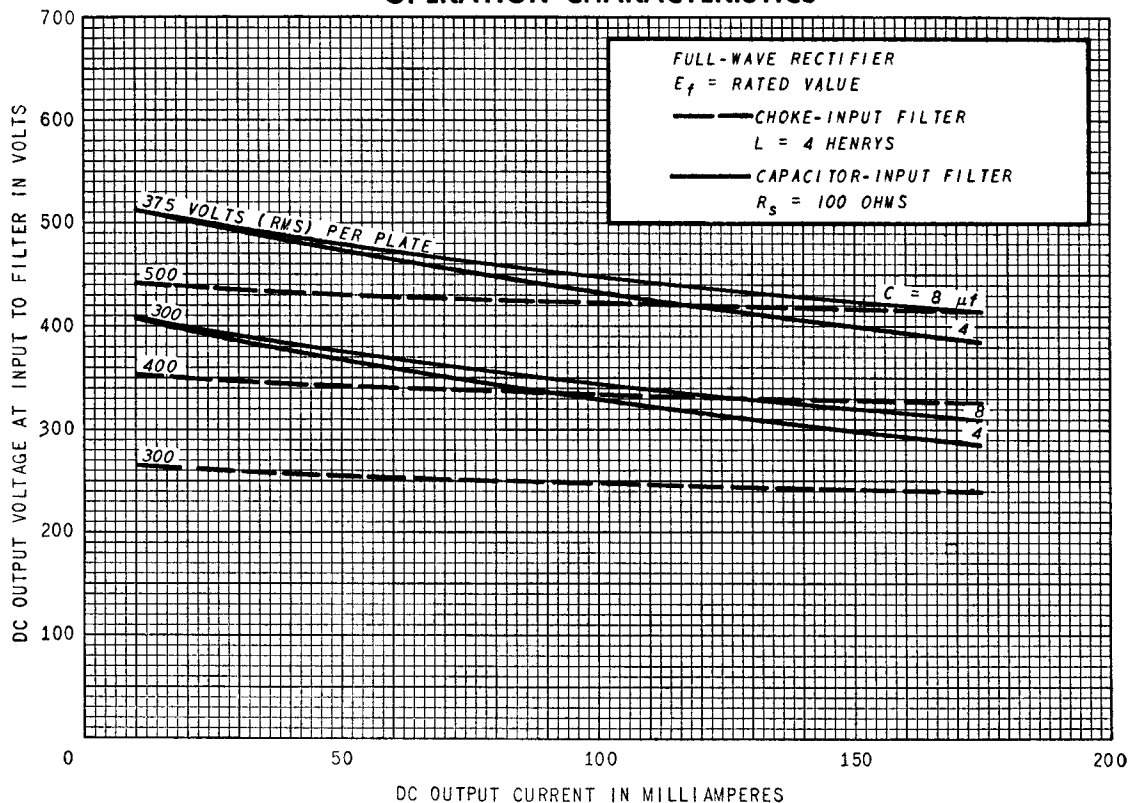
PHYSICAL DIMENSIONS



AVERAGE PLATE CHARACTERISTICS
 EACH SECTION



OPERATION CHARACTERISTICS



TUBE DEPARTMENT
GENERAL ELECTRIC
 Schenectady 5, N. Y.