Electronic TUBES

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

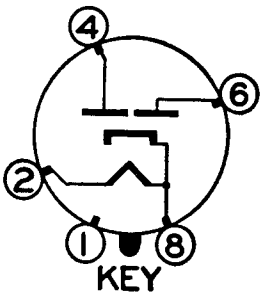
RECTIFIER SERVICE—DESIGN-CENTER VALUES

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 Ib = 175 Milliamperes DC per Plate	25		Volts

BASING DIAGRAM

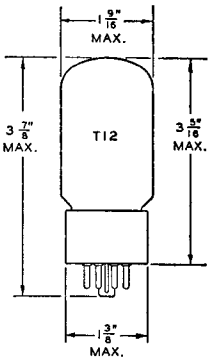


RETMA 5L

TERMINAL CONNECTIONS

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

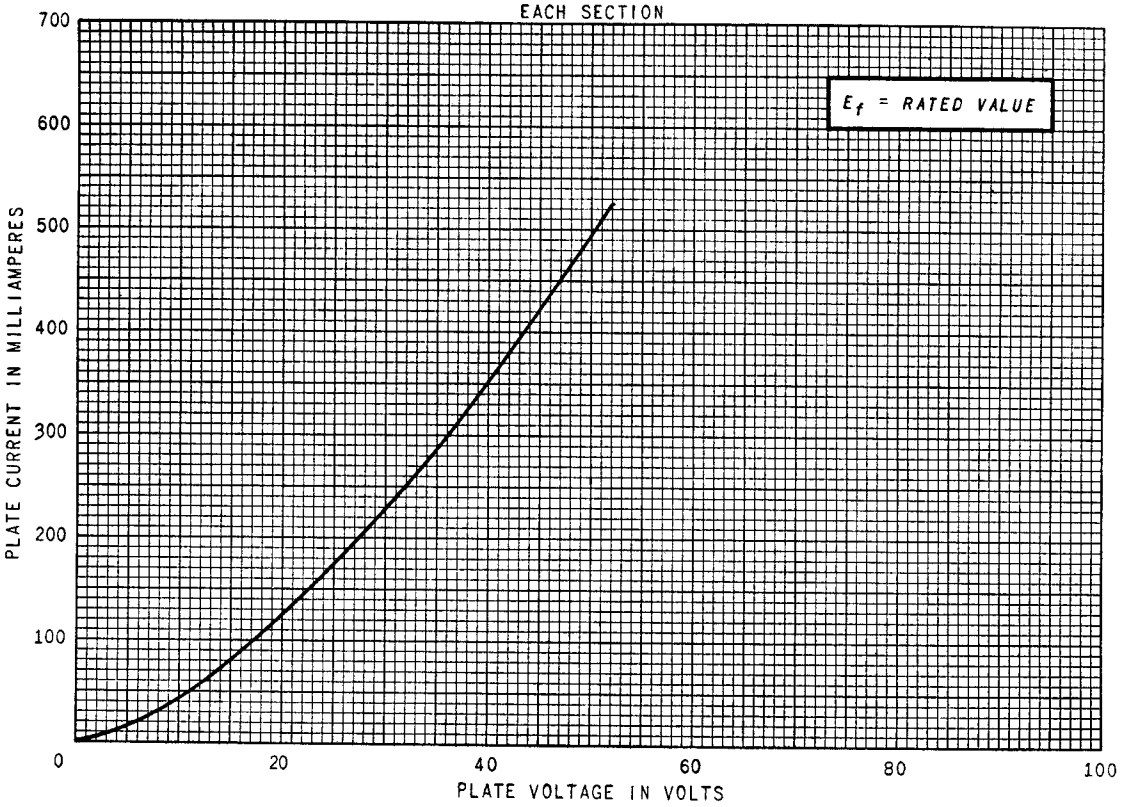
PHYSICAL DIMENSIONS



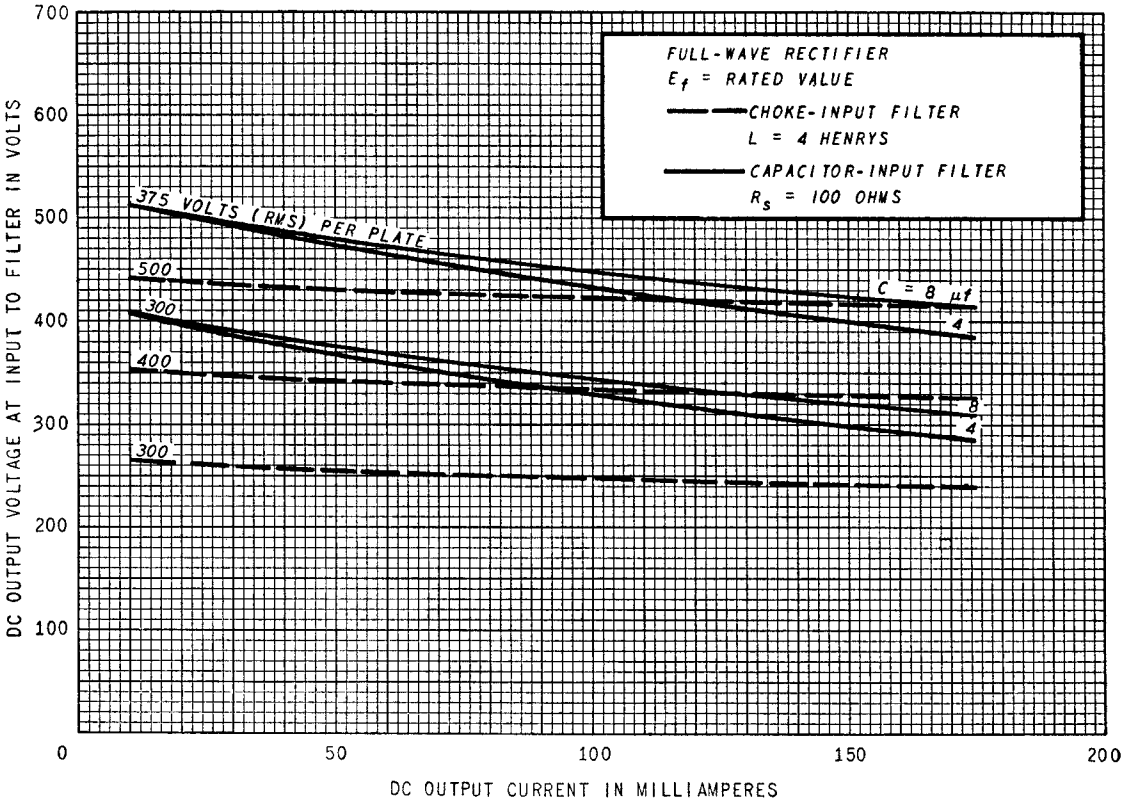
GENERAL ELECTRIC

AVERAGE PLATE CHARACTERISTICS

EACH SECTION



OPERATION CHARACTERISTICS



TUBE DEPARTMENT

GENERAL ELECTRIC

Schenectady 5, N. Y.