



# 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

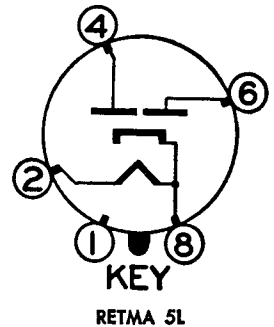
Peak Inverse Plate Voltage . . . . . 1400 Volts  
 AC Plate-Supply Voltage per Plate, RMS  
 For Capacitor-Input Filter . . . . . 375 Volts  
 For Choke-Input Filter . . . . . 500 Volts  
 Steady-State Peak Plate Current per Plate . . . . . 525 Milliamperes  
 Transient Peak Plate Current per Plate,  
 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 <sub>b</sub> = 175 Milliamperes DC per Plate . . . . .	25		Volts

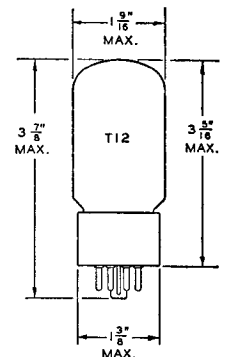
#### BASING DIAGRAM



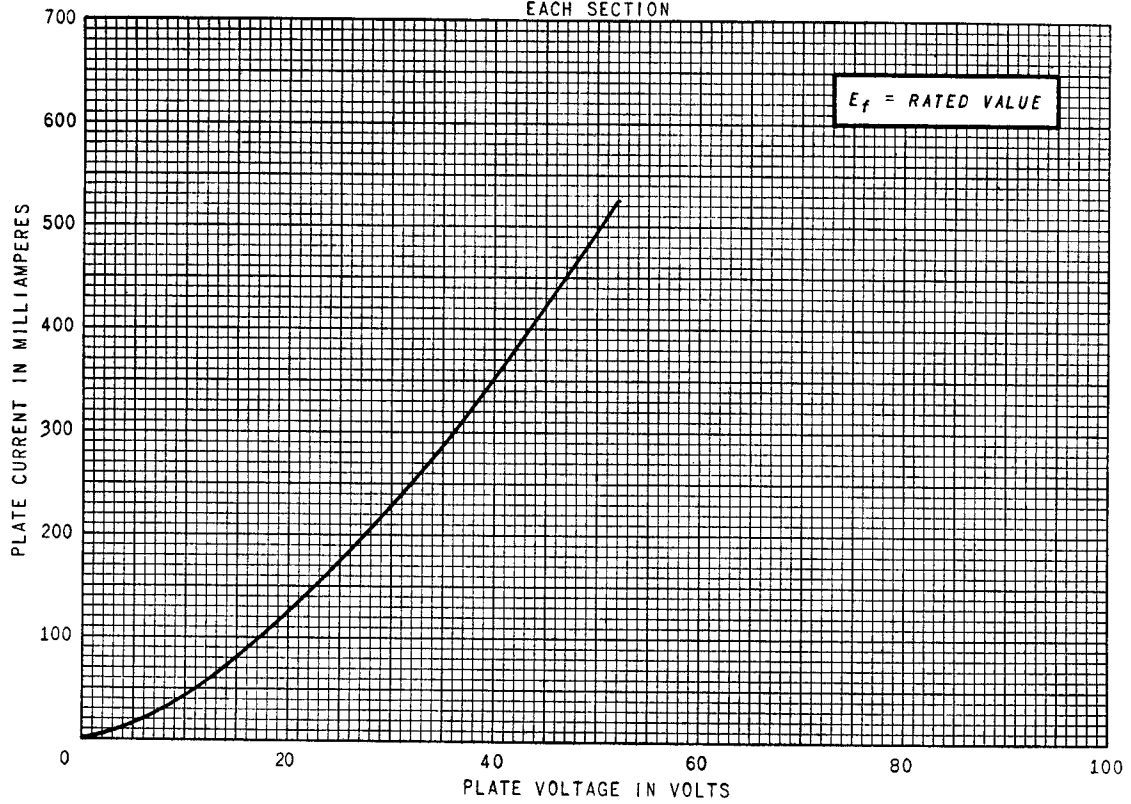
#### TERMINAL CONNECTIONS

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

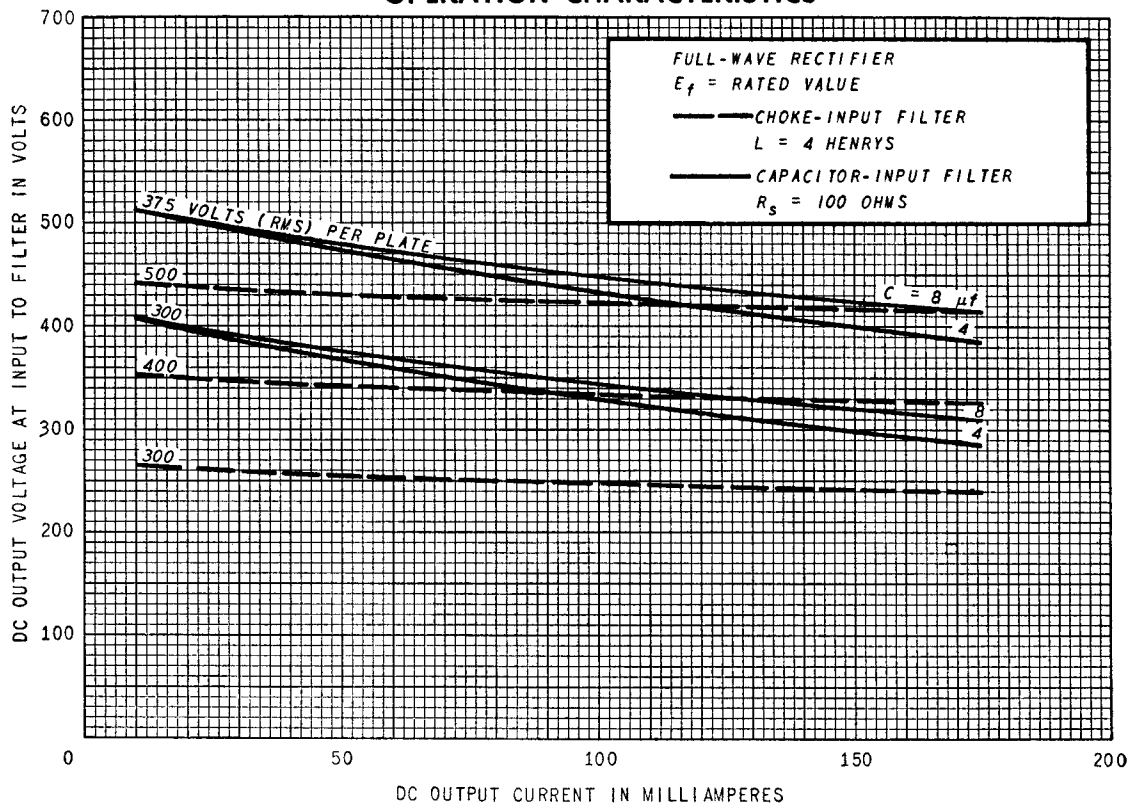
#### PHYSICAL DIMENSIONS



**AVERAGE PLATE CHARACTERISTICS**  
 EACH SECTION



**OPERATION CHARACTERISTICS**



TUBE DEPARTMENT  
**GENERAL ELECTRIC**  
 Schenectady 5, N. Y.