Electronic TUBES

5AW4

TWIN DIODE

FOR FULL-WAVE POWER-RECTIFIER APPLICATIONS

DESCRIPTION AND RATING

The 5AW4 is a high-vacuum rectifier intended for use as a full-wave power rectifier in television receivers.

GENERAL

ELECTRICAL

Cathode—Coated Filament

Filament Voltage, AC or DC	5.0	Volts
Filament Current	3.7	Amperes

MECHANICAL

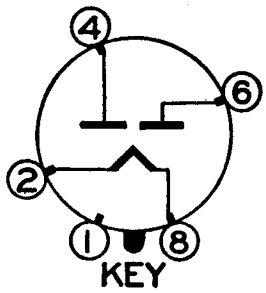
Mounting Position—Any
Envelope—T-12 Glass
Base—B5-15, Medium Shell Octal 5-Pin

MAXIMUM RATINGS

RECTIFIER SERVICE—DESIGN-CENTER VALUES

Peak Inverse Plate Voltage	1550	Volts
AC Plate-Supply Voltage per Plate—See Rating Chart I*		
Steady-State Peak Plate Current per Plate	750	Milliamperes
Transient Peak Plate Current per Plate, Maximum Duration 0.2 Second	4.0	Amperes
DC Output Current—See Rating Chart I*		

BASING DIAGRAM

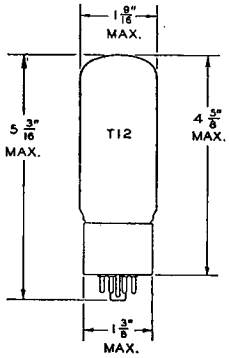


RETMA 5T

TERMINAL CONNECTIONS

Pin 1—No Connection
Pin 2—Filament
Pin 4—Plate Number 2
Pin 6—Plate Number 1
Pin 8—Filament

PHYSICAL DIMENSIONS



GENERAL ELECTRIC

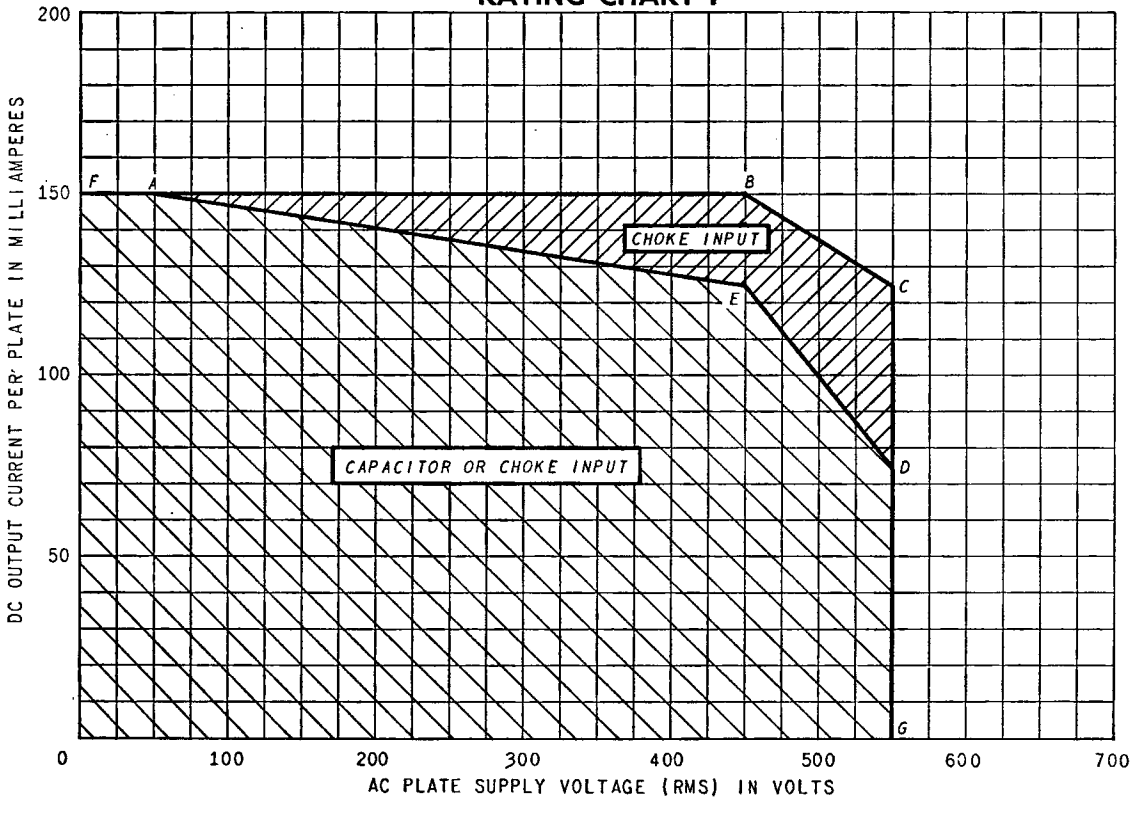
CHARACTERISTICS AND TYPICAL OPERATION

FULL-WAVE RECTIFIER	Capacitor-Input Filter	Choke-Input Filter	
AC Plate-Supply Voltage per Plate, RMS	450	550	Volts
Filter Input Capacitor	10	....	Microfarads
Filter Input Choke	...	10	Henrys
Total Plate-Supply Resistance per Plate	153	...	Ohms
DC Output Current	250	250	Milliamperes
DC Output Voltage at Filter Input	422	...	Volts
Tube Voltage Drop Ib=250 Milliamperes DC per Plate	46		Volts

* The maximum ratings for a-c plate supply voltage and d-c output current are interrelated and are also dependent on whether a choke- or capacitor-input filter is employed. This relationship is shown in Rating Chart I. With a capacitor-input filter, the operating point of d-c output current and a-c supply voltage must fall within the curve FAEDG. With a choke-input filter, the operating point must fall within the curve FABCDG.

Note: The indicated values of a-c plate-supply voltage shown throughout the data are measured without load.

RATING CHART I



TUBE DEPARTMENT

GENERAL ELECTRIC

Schenectady 5, N. Y.

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