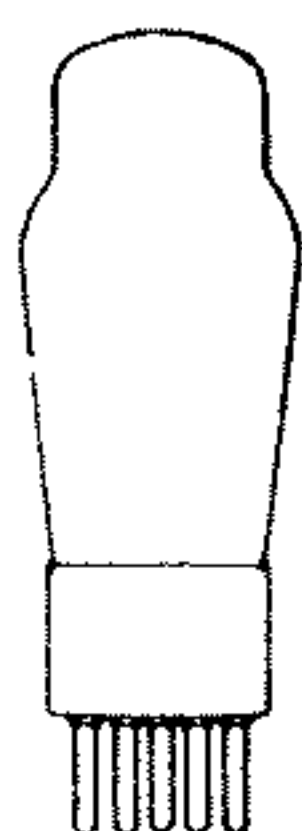


4AD-0-0



# Sylvania Type 83V

FULL-WAVE HIGH-VACUUM  
RECTIFIER

## PHYSICAL SPECIFICATIONS

Base.....	Medium 4 Pin
Bulb.....	ST14
Maximum Overall Length.....	4 <sup>11</sup> / <sub>16</sub> "
Maximum Seated Height.....	4 <sup>1</sup> / <sub>16</sub> "
Mounting Position.....	Any

## RATINGS

Heater Voltage AC.....	5.0 Volts
Heater Current.....	2.0 Amperes
Peak Inverse Voltage.....	1400 Volts
Tube Voltage Drop (175 Ma. per Plate).....	25 Volts

## TYPICAL OPERATION CONDENSER INPUT TO FILTER

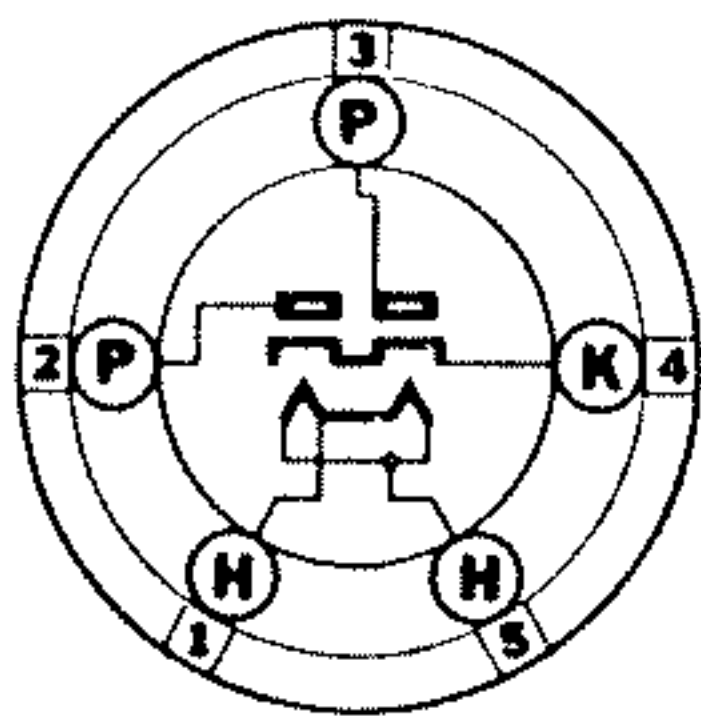
AC Voltage per Plate (RMS).....	375 Volts Max.
DC Output Current.....	175 Ma. Max.
Plate Supply Impedance per Plate.....	100 Ohms Min.

## CHOKE INPUT TO FILTER

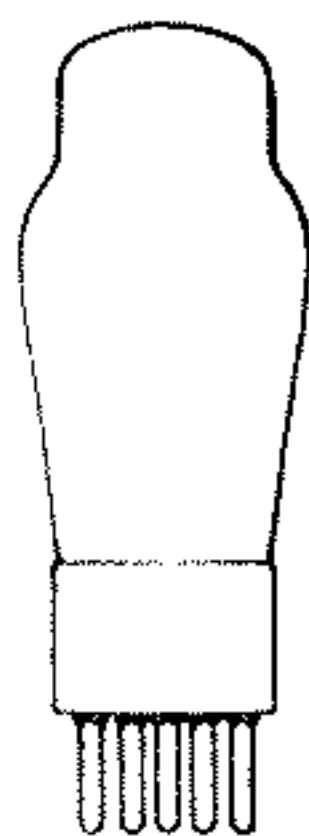
AC Voltage per Plate.....	500 Volts Max.
DC Output Current.....	175 Ma. Max.
Input Choke Value (Minimum).....	4.0 Henrys

## APPLICATION

Sylvania Type 83V is a heater-cathode type of high-vacuum rectifier. The heater-cathode type of construction allows much closer spacing of electrodes than with the filament type of construction. This close spacing reduces the inherent tube drop and improves the voltage regulation. High-vacuum type rectifiers are usually preferred in receivers because of the radio frequency hash noises usually generated by mercury vapor tubes. The use of shielding and filters to suppress this noise is unnecessary with high-vacuum rectifiers. Curves for type 83V will be found under equivalent type 5V4G.



5D-0-0



# Sylvania Type 84/6Z4

FULL-WAVE RECTIFIER

## PHYSICAL SPECIFICATIONS

Base.....	Small 5 Pin
Bulb.....	ST12
Maximum Overall Length.....	4 <sup>3</sup> / <sub>16</sub> "
Maximum Seated Height.....	3 <sup>9</sup> / <sub>16</sub> "
Mounting Position.....	Any

## TYPICAL OPERATION

Heater Voltage AC or DC.....	Note 1 6.3	Note 2 6.3 Volts
Heater Current.....	0.50	0.50 Ampere
Maximum RMS Plate Supply Voltage (Per Plate).....	325	450 Volts
Maximum DC Output Current.....	60	60 Ma.
Minimum Plate Supply Impedance (Per Plate).....	150	..... Ohms
Minimum Input Choke.....		10 Henrys

Note 1: Condenser input filter. Note 2: Choke Input filter.

## APPLICATION

Sylvania Type 84/6Z4 is a cathode type full-wave rectifier designed primarily for auto radio service. It is similar in application to type 7Y4.