**Sylvania Type 83V**

FULL-WAVE HIGH-VACUUM RECTIFIER

**PHYSICAL SPECIFICATIONS**
- Base: Medium 4 Pin
- Bulb: ST14
- Maximum Overall Length: 4 1/8"
- Maximum Seated Height: 4 1/4"
- 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.

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**Sylvania Type 84/6Z4**

FULL-WAVE RECTIFIER

**PHYSICAL SPECIFICATIONS**
- Base: Small 5 Pin
- Bulb: ST12
- Maximum Overall Length: 4 3/8"
- Maximum Seated Height: 3"
- Mounting Position: Any

**TYPICAL OPERATION**

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

**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.

**SYLVANIA RADIO TUBES**