SYLVANIA TYPE 5AS4A
F-W RECTIFIER

MECHANICAL DATA

Bulb ................................................ T-12
Base .................................................. B5-121, Short Medium Shell Octal 5-Pin or
Outline .............................................. 12-15
Basing ............................................... 5T
Cathode ............................................. Coated Filament Vertical
Mounting Position1

ELECTRICAL DATA

Filament Voltage, AC or DC ........................................ 5.0 Volts
Filament Current .............................................. 3.0 Amperes

RATINGS (Design Center Values)2
Rectifier Service3
Peak Inverse Plate Voltage ....................................... 1550 Volts Max.
AC Plate Supply Voltage Each Plate, RMS
(See Rating Chart I) ........................................... 550 Volts Max.
DC Output Current ............................................. See Rating Chart I
Steady State Peak Plate Current Each Plate
(See Rating Chart II) ......................................... 1.0 Amperes Max.
Transient Peak Plate Current Each Plate
(See Rating Chart III) ........................................ 4.6 Amperes Max.

AVERAGE CHARACTERISTICS
Tube Voltage Drop
Tube Conducting: 275 Ma Each Plate .......................... 50 Volts
300 Ma Each Plate ............................................. 54 Volts

TYPICAL OPERATION
Full Wave Rectifier—Capacitor Input Filter
AC Plate Supply Voltage Each Plate, RMS4 .. 300 450 Volts
Filter Input Capacitor ...................................... 40 40 µF
Effective Plate-Supply Resistance Each Plate ... 21 67 Ohms
DC Output Current .......................................... 300 275 Ma
DC Output Voltage at Filter Input .................. 290 460 Volts

Full Wave Rectifier—Choke Input Filter
AC Plate Supply Voltage Each Plate, RMS4 .. 550 Volts
Filter Input Choke ......................................... 10 Henrys
DC Output Current .......................................... 275 Ma
DC Output Voltage at Filter Input ............... 420 Volts

NOTES:
1. Horizontal Operation is permitted if Pins 1 and 4 are in a vertical plane.
2. See “Interpretation of Rating Charts”.
3. For use with sinusoidal supply voltages within the frequency range of 25 to
1000 cps.
4. AC plate voltage is measured without load.

APPLICATION

The Sylvania Type 5AS4A is a filamentary, full-wave, high vacuum rectifier
designed for service in the power supply of television receivers or other
equipment requiring high current.

SYLVANIA ELECTRONIC TUBES