

HYGRADE SYLVANIA CORPORATION

TECHNICAL DATA

SYLVANIA TYPE 50Y6G

High-Vacuum Rectifier-Doubler

Physical Specifications

Coated Unipotential Cathode

Base

Bulb

Maximum Diameter

Maximum Overall Length

Maximum Seated Height

Pin Connections

Pin 1 - No Connection

Pin 2 - Heater

Pin 3 - Plate #2

Pin 4 - Cathode #2

Pin 5 - Plate #1

Pin 7 - Heater

Pin 8 - Cathode #1

Small Shell Octal 7-Pin

ST-12

1 9/16"

4 1/8"

3 9/16"

Basing No. 7Q

Mounting Position

Any

Ratings

Heater Voltage (ac or dc)

50

volts

Heater Current

0.15

amp

Maximum AC Voltage per plate (RMS)

235

volts

Maximum DC Heater to Cathode Potential

350

volts

Maximum Peak Inverse Voltage

700

volts

Maximum Steady-State Peak Plate Current per Plate

450

ma

DC Voltage Drop per plate at 150 ma

22

volts

Typical Operating Conditions

Voltage Doubler

Heater Voltage

Half-Wave

Full-Wave

50

50

volts

AC Voltage per Plate (RMS)

117 Max

117 Max

volts

DC Output Current per Plate

75 Max

75 Max

ma

Minimum Total Effective Plate Supply

30

15

ohms

Impedance per Plate #

Half-Wave Rectifier

Heater Voltage

50

50

50

volts

AC Voltage per Plate (RMS)

117

150

235 Max

volts

DC Output Current per Plate

75 Max

75 Max

75 Max

ma

Minimum Total Effective Plate

15

40

100

ohms

Supply Impedance per Plate #

#When filter condensers larger than 40 mfd's are used, it may be necessary to add additional plate supply impedance.