Hygrade Sylvania

TECHNICAL DATA

SYLVANIA TYPE 117Z6G

Full-Wave Rectifier

TENTATIVE CHARACTERISTICS

Heater Voltage	58.5	117	Volts
Heater Current	0.150	0.075	Ampere
Maximum DC Heater to Cathode Voltage	350	350	Volts
Maximum Peak Inverse Voltage	700	700	Volts
Tube Voltage Drop at 120 Ma. per Plate	15.5	15.5	Volts

OPERATING CONDITIONS AND CHARACTERISTICS

Voltage Doubler

Heater Voltage	117	Volts
AC Voltage Per Plate (RMS)	117	Volts Max.
DC Output Current	60	Ma. Max.
Peak Plate Current	350	Ma. Max.
Plate Supply Impedance Per Plate (Min.)*		

Half-Wave Rectifier

Heater Voltage	117	117	117	Volts
AC Voltage Per Plate (RMS)	117	150	235	Max. Volts
DC Output Current Per Plate	60	60	60	Ma. Max.
Plate Supply Impedance Per Plate(Min.)* 0	40	100	Ohms Min.

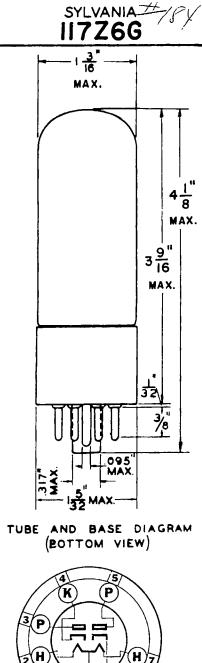
* Sufficient impedance to limit maximum peak plate current to value shown.

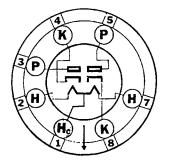
Note: Ratings marked maximum are design centers for a line voltage of 117 volts.

CIRCUIT APPLICATION

Sylvania Type 117Z6G is a heater type, high vacuum full-wave rectifier designed for operation directly across a 117-volt line. The center tap of the heaters is brought out to pin No. 1 so that it is possible to operate the heaters in parallel on 58.5 volts. With this connection the heater current is 150 milliamperes.

Conventional rectifier circuits may be employed but care should be taken to insure that the maximum current and voltage ratings are not exceeded.





235

15.5

volts

volts

THYGRADE SYLVANIA CORPORATION

TECHNICAL DATA SYLVANIA TYPE 11726G Full-Wave High-Vacuum Rectifier

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 5 - Plate #1 Pin 7 - Heater Pin 8 - Cathode #1	Small Oct T-9 1 3/16" 4 1/8" 3 9/16" RMA Basin	
Pin 4 - Cathode #2 Mounting Position	<i>"</i>	Any	
Ratings			
Heater Voltage Heater Current Maximum DC Heater to Cathode Maximum Peak Inverse Voltage Maximum Steady-State Peak Pla		117 0.075 350 700 360	volts amp volts volts ma

Typical Operating Conditions

Supply Impedance per Plate #

Tube Voltage Drop Measured with applied DC

Maximum AC Plate Voltage

Voltage Doubler .		Half-Wave	Full-Wave	
Heater Voltage AC Voltage per Plate (RMS) DC Output Current Minimum Total Effective Plate Supply Impedance per plate #		117 117 Max 60 Max 30	117 117 Max 60 Max 15	volts volts ma ohms
Half-Wave Rectifier		•		
Heater Voltage AC Voltage per Plate (RMS) DC Output Current Minimum Total Effective Plate	117 117 60 Max 15	117 150 60 Max 40	117 235 Hax 60 Hax 100	volts volts ma ohms

at 120 ma per plato

[#] When filter condensers larger than 40 mfds are used, it may be necessary to add additional plate supply impedance.