

HALF-WAVE VACUUM RECTIFIER TYPE 35Z5-GT

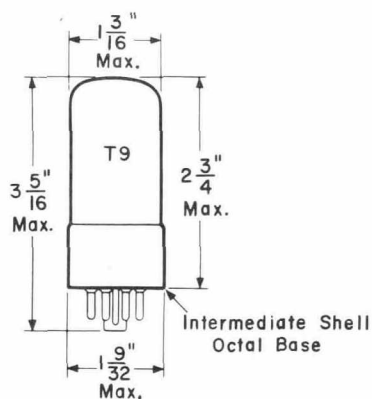
The 35Z5-GT is an octal half-wave rectifier designed for service in power supplies of ac-dc receivers. The heater is provided with a tap for operation of a panel lamp. This tube must be adequately ventilated, as the tube operates at high temperatures.

ELECTRICAL

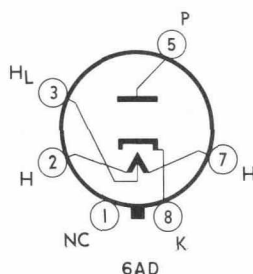
Cathode.....	Coated Unipotential	
	Without Panel Lamp	With #40 or #47 Panel Lamp
Heater Voltage		
Entire Heater		
(Pins 2 & 7).....	35	35 ac or dc Volts
Panel Lamp Section		
(Pins 2 & 3).....	7.5	5.5 ac or dc Volts
Heater Current		
Between Pins 2 & 7.....	0.15	— Ampere
Between Pins 3 & 7.....	—	0.15 Ampere

MECHANICAL

Bulb.....	T-9
Base.....	Short Int. Shell Octal
Basing.....	6AD
Mounting Position.....	Any



9-11



HALF-WAVE RECTIFIER

MAXIMUM RATINGS

Peak Inverse Plate Voltage.....	700 max. Volts
Peak Plate Current Per Plate.....	600 max. Ma.
Peak-Heater Cathode Voltage	
Heater Positive or Negative with Respect to Cathode.....	350 max. Volts
Panel-Lamp-Section Voltage (RMS)	
When Panel Lamp Fails.....	15 max. Volts
DC Output Current	
With Panel Lamp and No Shunting Resistor...	60 max. Ma.
With Panel Lamp and Shunting Resistor.....	90 max. Ma.
Without Panel Lamp.....	100 max. Ma.

TYPICAL OPERATING CONDITIONS

With #40 or #47 Panel Lamp

Half-Wave Rectifier—Capacitor Input to Filter

AC Plate Supply Voltage

Per Plate (RMS).....	117	117	117	117	235	Volts
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Filter Input Capacitor.....	40	40	40	40	40	μf
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Minimum Effective Plate Supply

Impedance per Plate (Note 1) ..	15	15	15	15	100	Ohms
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Panel Lamp Shunting Resistor ..	—	300	150	100	—	Ohms
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DC Output Current.....	60	70	80	90	60	Ma.
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TYPICAL OPERATING CONDITIONS Without Panel Lamp (Note 2)

Half-Wave Rectifier—Capacitor Input to Filter

AC Plate Supply Voltage Per Plate (RMS).....	117	235	Volts
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Filter Input Capacitor.....	40	40	μf
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Minimum Effective Plate Supply Impedance

Per Plate.....	15	100	Ohms
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DC Output Voltage at Input to Filter (Approx.):

At Half-Load Current of 50 ma.	140	280	Volts
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At Full-Load Current of 100 ma.	120	235	Volts
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DC Output Current.....	100	100	Ma.
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Voltage Regulation (Approx.)

Half-Load to Full-Load Current.....	20	45	Volts
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MAXIMUM CIRCUIT VALUES

Panel Lamp Shunting Resistor (Note 3)

For DC Output Current of:

70 ma.	800 max. Ohms
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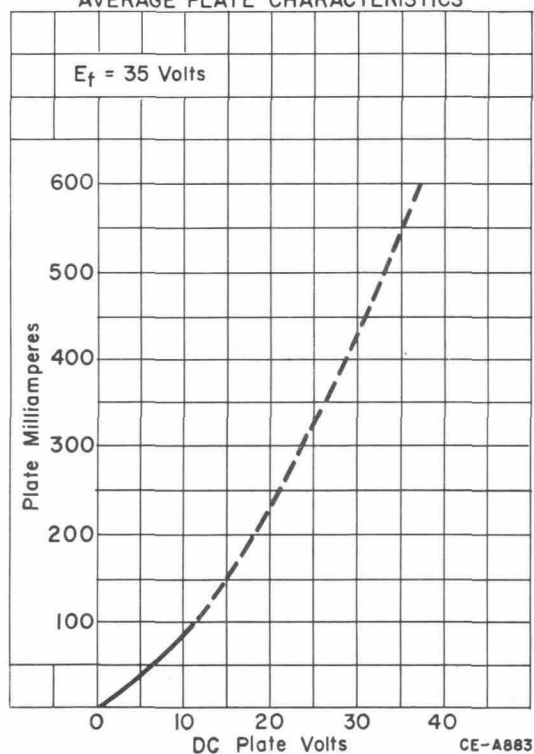
80 ma.	400 max. Ohms
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90 ma.	250 max. Ohms
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NOTES

- When filter-input capacitors larger than the value indicated are used, it may be necessary to increase the plate supply impedance to keep within maximum ratings.
- Plate current must not flow through tap section.
- Required when DC output current is greater than 60 milliamperes.

AVERAGE PLATE CHARACTERISTICS



OPERATION CHARACTERISTICS

