DIODE

TYPE 35Z5GT

3 5/16" max.

(5

BOTTOM VIEW

6AD

Hax.

2 3/4"

Excellence in Electronics

The 35Z5GT is a heater-cathode type diode designed for use as a half-wave rectifier in ac/dc receivers. A heater tap is provided to permit operation with a panel lamp.

MECHANICAL DATA

ENVELOPE: T-9 Glass

BASE: Intermediate or Short Intermediate Shell Octal 6-Pin

TERMINAL CONNECTIONS:

Pin 1 No Connection Pin 5 Plate
Pin 2 Heater Pin 7 Heater
Pin 3 Heater Tap ● Pin 8 Cathode

MOUNTING POSITION: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS:

	Without Panel Lamp ▲	With #40 or #47 Panel Lamp	G
Heater Voltage (ac or dc)(Pins 3 and 4) Panel - Lamp Section (Pins 4 and 6) Heater Current	35 7.5	32 volts 5.5 volts	(3
Between Pins 3 and 4 Between Pins 3 and 6 Maximum Heater - Cathode Voltage: Heater Positive with Respect to Cathode	0.15	0.15 amp.	(2
Total DC and Peak Heater Negative with Respect to Cathode	350	volts	
Total DC and Peak DESIGN CENTER MAXIMUM RATINGS:	350	volts	
Peak Inverse Plate Voltage Steady State Peak Plate Current Panel - Lamp Section RMS Voltage When Panel Lamp Fail Steady - State DC Output Current:	S	700 volts 600 ma. 15 volts	
With Panel Lamp and No Shunting Resistor With Panel Lamp and Shunting Resistor Without Panel Lamp Panel Lamp Shunting Resistor		60 ma. 90 ma. 100 ma.	
For DC Output Current of 70 ma. For DC Output Current of 80 ma. For DC Output Current of 90 ma. Tube Voltage Drop with Tube Conducting 200 mAdc Plate	Current	800 ohms 400 ohms 250 ohms 18 volts	
CHARACTERISTICS AND TYPICAL OPERATION WITH No	. 47 PANEL LAM	P IN CIRCUIT :	
AC Plate Supply Voltage (RMS) 117 Filter Input Capacitor 40 Minimum Total Effective Plate 15 Supply Impedance	117 117 40 40 15 15	117 volts $40~\mu\mathrm{f}$. $15~\mathrm{ohms}$	
	300 150 70 80	100 ohms 90 ma.	
5	8		0
Panel 3	R	Other Heaters	DC Output

Drop across R and all heaters (with panel lamp) should equal 117 volts at 0.15 amperes. R $_{\rm s}=$ shunting resistor required when DC output current exceeds 60, ${\rm ma}$.

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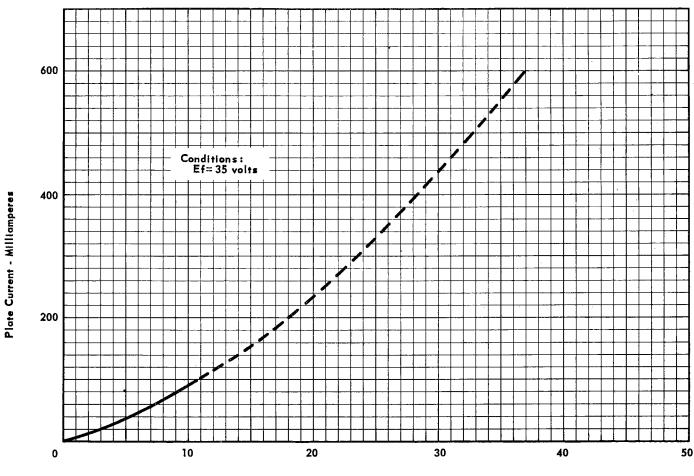
DIODE

ELECTRICAL DATA (cont'd)

CHARACTERISTICS AND TYPICAL OPERATION WITHOUT PANEL LAMP IN CONVENTIONAL HALF-WAVE CI	IRCUIT	: ♦
AC Plate Supply Voltage (RMS)	117	volts
Filter Input Capacitor	40	μŧ
Minimum Total Effective Plate Supply Impedance	15	ohms
DC Output Voltage at Input to Filter (approx.)	135	volts
At 50 ma (half-local)	135	volts
At 100 ma (full-load)	120	volts
DC Output Current	100	ma.

- Panel Lamp heater section is between pins 4 and 6.
- ▲ Plate Current must not flow through top section.
- ♦ With capacitor input to filter.

AVERAGE PLATE CHARACTERISTICS



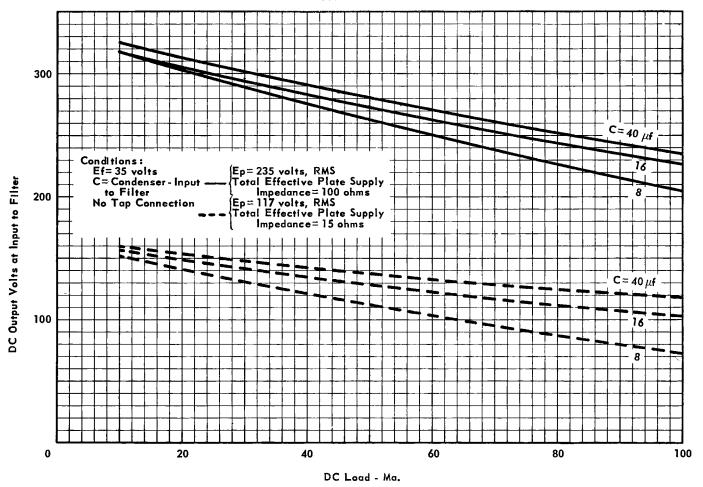
DC Plate Voltage - Volts

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OPERATION CHARACTERISTICS



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