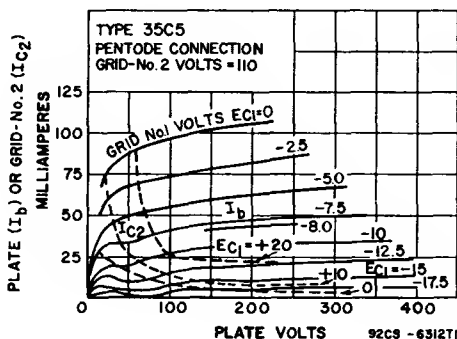


In a series-heater circuit of the "dc-power line" type employing several 0.15-ampere types and one or two 35C5s, the heater(s) of the 35C5(s) should be placed on the positive side of the line. Under these conditions, heater-cathode voltage of the 35C5 must not exceed the value given under maximum ratings. In a series-heater circuit of the "universal" type employing rectifier tube 35W4, one or two 35C5s and several 0.15-ampere types, it is recommended that the heater(s) of the 35C5(s) be placed in the circuit so that the higher values of heater-cathode bias will be impressed on the 35C5(s) rather than on the other 0.15-ampere types. This is accomplished by arranging the 35C5(s) on the side of the supply line which is connected to the cathode of the rectifier, i.e., the positive terminal of the rectified voltage supply. Between this side of the line and the 35C5(s), any necessary auxiliary resistance and the heater of the 35W4 are connected in series.

As a power amplifier (class A₁), the 35C5 is recommended for use either singly or in push-pull combination in the power-output stage of ac/dc receivers. The operating values shown under typical operation have been determined on the basis that grid-No.1 current does not flow during any part of the input cycle.



Refer to chart at end of section.

35DZ8

Refer to chart at end of section.

35EH5

Refer to chart at end of section.

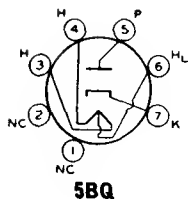
35GL6

Refer to chart at end of section.

35L6GT

Refer to type 6LR6.

35LR6



HALF-WAVE VACUUM RECTIFIER

35W4

Miniature type used in power supply of ac/dc receivers. Outlines section, 5D; requires miniature 7-contact socket. This type is equivalent in performance to glass-octal type 35Z5GT. The heater is provided with a tap for operation of a panel lamp.

Heater Voltage (ac/dc):	*	**	
Entire Heater (pins 3 and 4)	35	32	volts
Panel Lamp Section (pins 4 and 6)	7.5	5.5	volts
Heater Current:			
Between Pins 3 and 4	0.15	—	ampere
Between Pins 3 and 6	—	0.15	ampere
Peak Heater-Cathode Voltage		±360 max	volts

* Without panel lamp.

** With No.40 or No.47 panel lamp.

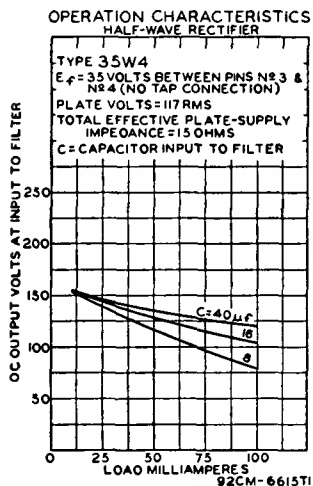
Half-Wave Rectifier

MAXIMUM RATINGS (Design-Maximum Values)

Peak Inverse Plate Voltage	360	volts
Peak Plate Current	660	mA
Average Output Current:		
With Panel Lamp and { No Shunting Resistor	66	mA
Shunting Resistor	100	mA
Without Panel Lamp	110	mA
Panel-Lamp-Section Voltage:		
When Panel Lamp Fails	17	volts
AC Plate-Supply Voltage (rms)	117	volts
Filter-Input Capacitor	40	μF
Minimum Total Effective Plate-Supply Impedance	15	ohms
Panel-Lamp Shunting Resistor	300	ohms
Average Output Current	60	mA

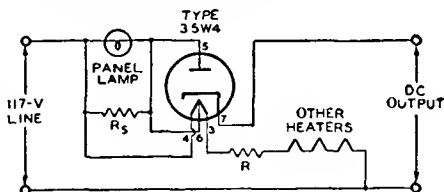
† No.40 or No.47 panel lamp used in circuit given below with capacitor-input filter.

Installation and Application



For heater considerations, refer to miniature type 35C5.

With the panel lamp connected as shown in the diagram, the drop across R and all heaters (with panel lamp) should equal 117 volts at 0.15 ampere. The shunting resistor R_s is required when dc output current exceeds 60 milliamperes. Values of R_s for dc output currents greater than 60 milliamperes are given in tabulated data.



TYPICAL OPERATION WITHOUT PANEL LAMP

AC Plate-Supply Voltage (rms)	117	volts
Filter-Input Capacitor	40	μF
Minimum Total Effective Plate-Supply Impedance	15	ohms
Average Output Current	100	mA
DC Output Voltage at Input to Filter (Approx.):		
At half-load current (50 mA)	135	volts
At full-load current (100 mA)	120	volts
Voltage Regulation (Approx.):		
Half-load to full-load current	15	volts

MAXIMUM CIRCUIT VALUES

Panel-Lamp Shunting Resistor: ^a		
For dc output current of { 70 mA	800	ohms
{ 80 mA	400	ohms
{ 90 mA	250	ohms

* Required when dc output current is greater than 60 milliamperes.