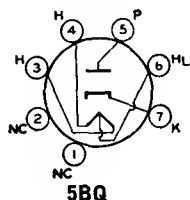


50DC4**HALF-WAVE
VACUUM RECTIFIER**

Miniature type used in power supply of ac/dc radio receivers. The heater is provided with a tap for operation of a panel lamp. For typical circuit, refer to type 35W4. Outlines section, 5D; requires 7-contact socket.



Heater Voltage (ac/dc):	*	**	volts
Entire Heater (Pins 3 and 4)	50	45	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		±330 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	330	volts
Peak Plate Current	720	mA
Average Output Current:		
With Panel Lamp and { No Shunting Resistor	70	mA
Without Panel Lamp { Shunting Resistor*	110	mA
Panel-Lamp-Section Voltage (rms):	120	mA
When Panel Lamp Fails	16.5	volts

TYPICAL OPERATION WITH PANEL LAMP†

AC Plate-Supply Voltage (rms)	117	117	117	117	volts
Filter-Input Capacitor	40	40	40	40	μF
Minimum Total Effective Plate-Supply Impedance	15	15	15	15	ohms
Panel-Lamp Shunting Resistor	450	200	100	75	ohms
Average Output Current	70	80	90	100	mA

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	110	mA
DC Output Voltage at Input to Filter (Approx.):		
At half-load current (55 mA)	130	volts
At full-load current (110 mA)	110	volts
Voltage Regulation (Approx.):		
Half-load to full-load current	20	volts

† No.40 or No.47 panel lamp used in circuit with capacitor-input filter given under type 35W4.

* Required when dc output current is greater than 70 milliamperes.

50EH5

Refer to type 6EH5.

50FE5

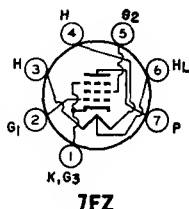
Refer to chart at end of section.

50FK5

Refer to chart at end of section.

50HC6**POWER PENTODE**

Miniature type used in the audio-frequency power-output stages of radio receivers. Heater is provided with a tap for operation of a panel lamp. Outlines section, 5D; requires miniature 7-contact socket. Heater: volts (ac/dc), 50; amperes, 0.15; tap volts (without panel lamp), 7; maximum heater-cathode volts, ±200 peak, 100 average.

**MAXIMUM RATINGS (Design-Maximum Values)**

RMS Heater-Tap Voltage, when panel lamp fails	14	volts
Plate Voltage	150	volts
Grid-No.2 (Screen-Grid) Voltage	130	volts
Plate Dissipation	5.5	watts
Grid-No.2 Input	2	watts