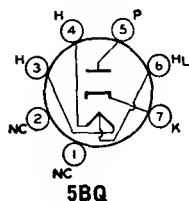


50DC4**HALF-WAVE
VACUUM RECTIFIER**

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

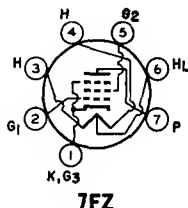
Refer to chart at end of section.

50FK5

Refer to chart at end of section.

50HC6**POWER PENTODE**

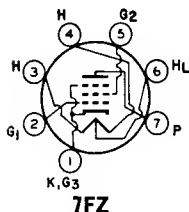
Miniature type used in the audio-frequency power-output stages of radio receivers. Heater is provided with a tap for operation of a panel lamp. Outlines section, 5D; requires miniature 7-contact socket. Heater: volts (ac/dc), 50; amperes, 0.15; tap volts (without panel lamp), 7; maximum heater-cathode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

CHARACTERISTICS

Plate Supply Voltage	110	volts
Grid-No.2 Voltage	115	volts
Peak AF Grid-No.1 (Control-Grid) Voltage	3	volts
Cathode-Bias Resistor	62	ohms
Zero-Signal Plate Current	42	mA
Maximum-Signal Plate Current	42	mA
Zero-Signal Grid-No.2 Current	11.5	mA
Maximum-Signal Grid-No.2 Current	14.5	mA
Plate Resistance (Approx.)	11000	ohms
Transconductance	14600	μ mhos
Load Resistance	3000	ohms
Total Harmonic Distortion (Approx.)	7	per cent
Maximum-Signal Power Output	1.4	watts



7FZ

POWER PENTODE

50HK6

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

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

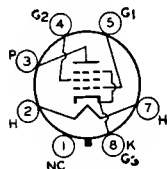
Plate Voltage	150	volts
Grid-No.2 (Screen-Grid) Voltage	130	volts
Plate Dissipation	5.5	watts
Grid-No.2 Input	1.1	watts
RMS Heater-Tap Voltage When Panel Lamp Fails	14	volts

TYPICAL OPERATION AND CHARACTERISTICS

Plate Voltage	110	volts
Grid-No.2 Voltage	110	volts
Grid-No.1 (Control-Grid) Voltage	-7.5	volts
Peak AF Grid-No.1 Voltage	7.5	volts
Zero-Signal Plate Current	49	mA
Maximum-Signal Plate Current	50	mA
Zero-Signal Grid-No.2 Current	4	mA
Maximum-Signal Grid-No.2 Current	8.5	mA
Plate Resistance (Approx.)	10000	ohms
Transconductance	7500	μ mhos
Load Resistance	2500	ohms
Total Harmonic Distortion (Approx.)	9	per cent
Maximum-Signal Power Output	1.9	watts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.5	megohm



7AC

BEAM POWER TUBE

50L6GT

25L6GT

Glass octal type used in output stage of ac/dc radio receivers. Outlines section, 13D; requires octal socket. This type may be supplied with pin No.1 omitted. Refer to miniature type 50C5 for installation and application information. Type 25L6GT is identical with type 50L6GT except for heater ratings.

	25L6GT	50L6GT	
Heater Voltage (ac/dc)	25	50	volts
Heater Current	0.3	0.15	ampere
Peak Heater-Cathode Voltage	± 90 max	± 90 max	volts
Direct Interelectrode Capacitances (Approx.):			
Grid No.1 to Plate		0.6	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3		15	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3		9.5	pF