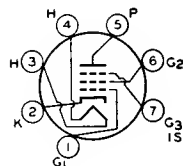


6BJ6

6BJ6A

REMOTE-CUTOFF PENTODE

Miniature type used as rf amplifier in high-frequency and wide-band applications. Features high transconductance and low grid-to-plate capacitance. Outlines section, 5C; requires miniature 7-contact socket. Type 6BJ6A is identical with type 6BJ6 except for test controlled interference impedance.



7CM

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.15	ampere
Peak Heater-Cathode Voltage	±90 max	volts
Direct Interelectrode Capacitances:*		
Grid No.1 to Plate	0.0035 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	4.5	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	5.5	pF

* Without external shield, or with external shield connected to cathode.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	300	volts
Grid-No.2 (Screen-Grid) Voltage	See curve page 98	
Grid-No.2 Supply Voltage	300	volts
Plate Dissipation	3	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 150 volts	0.6	watt
For grid-No.2 voltages between 150 and 300 volts	See curve page 98	
Grid-No.1 (Control-Grid) Voltage:		
Negative-bias value	50	volts
Positive-bias value	0	volts

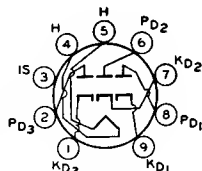
CHARACTERISTICS

Plate Voltage	100	250	volts
Grid No.3	Connected to cathode	at socket	
Grid-No.2 Voltage	100	100	volts
Grid-No.1 Voltage	—1	—1	volt
Plate Resistance (Approx.)	0.25	1.3	megohms
Transconductance	3650	3600	μmhos
Plate Current	9	9.2	mA
Grid-No.2 Current	3.5	3.3	mA
Grid-No.1 Voltage (Approx.) for transconductance of 10 μmhos	—20	—20	volts

6BJ7

TRIPLE DIODE

Miniature type used as a dc-restorer tube in each of the three signal channels of color-television receivers. Each diode has a separate cathode. Outlines section, 6B; requires miniature 9-contact socket.



9AX

Heater Voltage	6.3	volts
Heater Current	0.45	ampere
Direct Interelectrode Capacitances:		
Plate of Unit No.1 to Cathode of Unit No.1, Heater, and Internal Shield	3	pF
Plate of Unit No.2 to Cathode of Unit No.2, Heater, and Internal Shield	2.6	pF
Plate of Unit No.3 to Cathode of Unit No.3, Heater, and Internal Shield	2.6	pF
Cathode of Unit No.1 to Plate of Unit No.1, Heater, and Internal Shield	4	pF
Cathode of Unit No.2 to Plate of Unit No.2, Heater, and Internal Shield	3.8	pF
Cathode of Unit No.3 to Plate of Unit No.3, Heater, and Internal Shield	4	pF
Plate of Unit No.1 to Plate of Unit No.2	0.055	pF
Plate of Unit No.2 to Plate of Unit No.3	0.036	pF
Plate of Unit No.3 to Plate of Unit No.1	0.036	pF

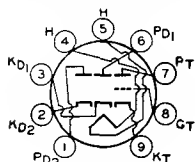
DC Restorer Service

MAXIMUM RATINGS (Design-Center Values, Each Unit)

Peak Inverse Plate Voltage	330	volts
Peak Plate Current	10	mA
Average Output Current	1	mA
Peak Heater-Cathode Voltage	+100 —330	volts

TWIN DIODE— MEDIUM-MU TRIODE

6BJ8



9ER

frequency oscillator applications. Outlines section, 6E; requires miniature 9-contact socket.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.6	ampere
Heater Warm-up Time (Average)	11	seconds
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Triode Unit:		
Grid to Plate	2.6	pF
Grid to Cathode and Heater	2.8	pF
Plate to Cathode and Heater	0.31	pF
Diode Units:		
Plate to Cathode and Heater (Each Unit)	1.9	pF
Cathode to Plate and Heater (Each Unit)	4.6	pF
Plate of Unit No.1 to Plate of Unit No.2	0.06 max	pF
Plate of Diode Unit No.1 to Triode Grid	0.07 max	pF
Plate of Diode Unit No.2 to Triode Grid	0.11 max	pF
Plate of Either Diode Unit to All Other Electrodes	3	pF
Cathode of Either Diode Unit to All Other Electrodes	4.8	pF

Triode Unit as Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Average Cathode Current	22	mA
Plate Dissipation	4	watts

CHARACTERISTICS

Plate Voltage	90	250	volts
Grid Voltage	0	-9	volts
Amplification Factor	22	20	
Plate Resistance (Approx.)	4700	7150	ohms
Transconductance	4700	2800	μmhos
Plate Current	13.5	8	mA
Plate Current for grid voltage of -12.5 volts	—	1.7	mA
Grid Voltage (Approx.) for plate current of 10 μA	-7	-18	volts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance	1	megohm
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Triode Unit as Vertical-Deflection Amplifier

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

DC Plate Voltage	330	volts
Peak Positive-Pulse Plate Voltage#	1200	volts
Peak Negative-Pulse Grid Voltage	275	volts
Peak Cathode Current	77	mA
Average Cathode Current	22	mA
Plate Dissipation	4	watts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance, for cathode-bias operation	2.2	megohms
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Pulse duration must not exceed 15% of a vertical scanning cycle (2.5 milliseconds).

Diode Units

MAXIMUM RATINGS (Design-Maximum Values)

Plate Current (Each Unit):		
Peak	54	mA
Average	9	mA