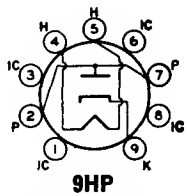
6BS3 Refer to chart at end of section.

6BS3A

12BS3A, 17BS3A

HALF-WAVE VACUUM RECTIFIER



9HP

Novar type used as damper tube in horizontal-deflection circuits of black-and-white television receivers. Outlines section, 30B; requires novar 9-contact socket. Socket terminals 1, 3, 6, and 8 should not be used as tie points; it is recommended that socket clips for these pins be removed to reduce the possibility of arc-over and to minimize leakage. These tubes, like other power-handling tubes, should be adequately ventilated. Types 12BS3A and 17BS3A are identical with type 6BS3A except for heater ratings.

	6BS3A	12BS3A	17BS3A	
Heater Voltage (ac/dc)	6.3	12.6	16.8	volts
Heater Current	1.2	0.6	0.45	amperes
Heater Warm-up Time (Average)	—	11	11	seconds
Direct Interelectrode Capacitances (Approx.):				
Plate to Cathode and Heater			6.5	pF
Cathode to Plate and Heater			9	pF
Heater to Cathode			2.8	pF

Damper Service

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

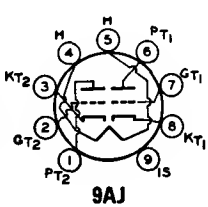
MAXIMUM RATINGS (Design-Maximum Values)			
Peak Inverse Plate Voltage#		5000	volts
Peak Plate Current		1100	mA
Average Plate Current		200	mA
Plate Dissipation		6	watts
Heater-Cathode Voltage:			
Peak value	+300	−5000	volts
Average value	+100	−900	volts
CHARACTERISTICS, *Instantaneous Value*			
Tube Voltage Drop for plate current of 140 mA		12	volts

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

6BS8

4BS8

MEDIUM-MU TWIN TRIODE



9AJ

Miniature type used as a cascode amplifier in vhf color and black-and-white television tuners and in push-pull cathode-drive *rf* amplifiers. Outlines section, 6B; requires miniature 9-contact socket. Type 4BS8 is identical with type 6BS8 except for heater ratings.

	4BS8	6BS8	
Heater Voltage (ac/dc)	4.5	6.3	volts
Heater Current	0.6	0.4	ampere
Heater Warm-up Time (Average)	11	—	seconds
Peak Heater-Cathode Voltage	±200 max	±200 max	volts
Direct Interelectrode Capacitances:			
Grid to Plate (Each Unit)		1.15	pF
Grid to Cathode, Heater, and Internal Shield (Unit No.1)		2.6	pF
Plate to Cathode, Heater, and Internal Shield (Unit No.1)		1.2	pF
Plate to Cathode (Each Unit)		0.15 max	pF