

# SYLVANIA TUBES — AVERAGE CHARACTERISTICS

Type	Construction		Emitter		Note (1) (*) Capacitances in $\mu\text{fd}$ .			Use	Plate Volts	Negative Grid Volts	Screen Volts	Plate Current Ma.	Screen Current Ma.	Plate Resistance Ohms	Transconductance Micromhos	Amplification Factor	Ohms Load for Stated Power Output	Power Output Milli-watts	Type
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	Amps.	Cap.												
6CB6	T-5½	Pentode	7CM-0-7	Cathode	6.3	0.30	0.09m*	6.3*	1.9*	180	150	9.5	2.8	600,000†	6,200	.....	.....	6CB6	
6CD6G	ST-16	Pentode	5BT-0-0	Cathode	6.3	2.5	0.8*	24*	9.5*	175	150	7.5	5.5	7,200	7,700	.....	.....	6CD6G	
6CD6GA	T-12	Beam Pent.	5BT-0-0	Cathode	6.3	2.5	1.1*	22.0*	8.5*	100	150	8.5	1.6	6,900	4,000	.....	.....	6CD6GA	
6CE5	T-5½	Pentode	7BD	Cathode	6.3	.3	0.030*	6.5*	1.9*	200	180	9.5	2.8	600,000	6,200	.....	.....	6CE5	
6CF6	T-5½	Pentode	7CM	Cathode	6.3	0.3	.090*	6.3*	1.9*	200	180	9.5	2.8	0.6 Meg.	6,200	.....	.....	6CF6	
6CG6	T-5½	Pentode	7BK-0-2	Cathode	6.3	0.30	.008m	5.0	5.0	250	8.0	9	2.3	720,000†	2,000	.....	.....	6CG6	
6CG7	T-6½	Duotriode	9A-J-0-9	Cathode	6.3‡	0.600	4.0*	2.3*	2.2*	Characteristics Same as Type 6SN7GT. (6CG7 Designed for Series String TV Receivers).									
6CG8	T-6½	Tri. Pentode	9GF	Cathode	6.3	0.450	1.5	3.0	1.0	100	100	8.5	.....	6,900	5,800	.....	.....	6CG8	
6CH7	T-6½	Duotriode	9FC-0-2	Cathode	6.3	.4	1.1	2.4	0.8	250	200	7.7	.....	.75 Meg.	4,600	.....	.....	6CH7	
6CL5	T-12	Beam Amp.	8GD	Cathode	6.3	2.5	0.7*	20.0*	11.5*	7,000 Max.	Peak Pos. Pulse Plate Volts. 25 Watts Max. Plate Dissipation.	30	7	0.15 Meg.†	11,000	.....	.....	6CL5	
6CL6	T-6½	Pentode	9BV	Cathode	6.3	0.65	0.12	1.1	5.5	195	0	15	.....	100,000	8,000	.....	.....	6CL6	
6CL8	T-6½	Tri. Tetraode	9FX	Cathode	6.3‡	0.45	1.8	2.7	1.2	185	1.0	12	4.0	50,000	8,000	.....	.....	6CL8	
6CM6	T-6½	Beam Pentode	9CK	Cathode	6.3	0.45	0.7	8.0	8.5	185	1.0	15	.....	100,000	5,800	.....	.....	6CM6	
6CM7	T-6½	Duotriode	9ES	Cathode	6.3‡	0.600	3.8*	2.0*	0.5*	200	0	49	4.0	13,000	8,000	.....	.....	6CM7	
6CM8	T-6½	Tri. Pentode	9FZ	Cathode	6.3‡	0.45	1.9	1.6	0.22	200	180	9.5	2.8	50,000	2,000	.....	.....	6CM8	
6CN7	T-6½	Duotriode Tri.	9EN-0-3	Cathode	6.3	0.30	1.8*	1.5*	0.5*	100	1.0	0.8	.....	54,000	1,300	.....	.....	6CN7	
6CR6	T-5½	Diode Pent.	7EA	Cathode	6.3	0.3	.....	.....	.....	250	3.0	1.0	.....	58,000	1,200	.....	.....	6CR6	
6CS5	T-6½	Pentode	6CS5	Cathode	6.3	1.2	0.5	15	9	110	110	49	.....	200,000	1,950	.....	.....	6CS5	
6CS6	T-5½	Dual Control Heptode	7CH	Cathode	6.3	0.3	0.07*	5.5*	7.5*	100	0	1.8	0	50,000	2,000	.....	.....	6CS6	
6CS7	T-6½	Duotriode	9EF	Cathode	6.3‡	0.600	2.6*	7.0*	0.5*	100	180	9.5	2.2	300,000	6,200	.....	.....	6CS7	
6CU5	T-5½	Pentode	7CV	Cathode	6.3	1.2	0.7*	13.2*	8.8*	100	0	0.8	5.5	0.7 Meg.	1,500 Gr. 3 Grid #3 Volts = -1.0	.....	.....	6CU5	
6CX7	T-6½	Duotriode	9FC-0-2	Cathode	6.3	1.2	0.7*	13.2*	8.8*	100	-1	1.0	1.3	1.0 Meg.	1,100 Gr. 1 Grid #3 Volts = 0	.....	.....	6CX7	
6D4	T-5½	Gas Triode	5AY-0-0	Cathode	6.3	0.25	.....	.....	.....	250	8.5	10.5	.....	7,700	2,800	.....	.....	6D4	
6D6	ST-12	Pentode	6F-0-5	Cathode	6.3	0.30	.007m	4.7*	6.5*	250	3.0	8.2	9.0	250,000	1,500	.....	.....	6D6	
6D7	ST-12	Pentode	7H-5-6	Cathode	6.3	0.30	.....	.....	.....	150	220	.....	.....	10,000	7,500	.....	.....	6D7	
6D8G	ST-12	Heptode	8A-0-0	Cathode	6.3	0.15	0.2	8.0	11.0	135	3.0	67.5	1.7	600,000	325 $\Delta$ (Ga = 135 V, 1.8 Ma.)	.....	.....	6D8G	
6DB6	T-5½	Pentode	7CM-0-2	Cathode	6.3	0.3	.0035*	6.0*	5.0*	250	3.0	3.5	2.6	400,000	550 $\Delta$ (Ga = 250 V, 4.5 Ma.)	.....	.....	6DB6	
6DE6	T-5½	Pentode	7CM-0-7	Cathode	6.3	0.3	0.09*	6.5*	2.0*	150	1.0	5.8	6.6	50,000	2,050 $\mu\text{mhos}$ when Eg 3 = -3 Volts.	.....	.....	6DE6	
6DG6	T-5½	Pentode	7CM-0-7	Cathode	6.3	0.30	0.090m*	6.3m*	1.9m*	200	180	9.0	3.0	500,000	5,500	.....	.....	6DG6	
6DG6GT	T-9	Beam Pent.	7S-0-0	Cathode	6.3	1.2	.....	.....	.....	200	180	9.5	2.8	0.6 Meg.	6,200	.....	.....	6DG6GT	
6DN6	T-12	Pentode	5BT-0-0	Cathode	6.3	2.5	0.8	22	11.5	110	7.5	110	49	13,000	8,000	.....	.....	6DN6	
6DQ6	T-12	Pentode	6AM-0-0	Cathode	6.3	1.2	0.55*	15.0*	7.0*	195	18	70	6.3	4,000	9,000	.....	.....	6DQ6	
6DQ6A	T-12	Pentode	6AM	Cathode	6.3	1.2	0.55*	15*	7*	950	29.5	75	2.4	20,000	15 Watts Max. Plate Dissipation.	.....	.....	6DQ6A	

(1) Values are given shielded unless marked with (\*).  
 (2) Converter tube capacitances given are signal grid to plate; RF Input, Mixer Output.  
 ‡ Controlled Heater Warm-up Time, applies only for 600 Ma. condition.

(3) Has special mechanical and/or life characteristics.  
 \* Applied through 250,000 ohms.  
 † Per Tube or Section.  
 ‡ Plate and Target Supply Voltage.

□ Pentode Operation.  
 † Plate to Plate.  
 ‡ Approximate.  
 \* Conversion Transconductance.  
 † Triode Operation.

m maximum  
 n Cathode Resistor (ohms).