

# SYLVANIA TUBES — AVERAGE CHARACTERISTICS

Type	Construction		Emitter		Note (1) (*) Capacitances in $\mu\mu\text{f}$ .			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 Milliwatts	Type	
	Bulb Size or Style	Class	Basing Diag.	Type	Volts	Amps.	Cgp.													Cin.
12AU7	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.15	1.5*	1.6*	0.40*	8.5	10.5	.....	.....	7,700	2,900	17	.....	12AU7		
12AU7A	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.30	1.5*	1.6*	0.39*	0	11.8	.....	.....	6,500	3,100	20	.....	12AU7A		
12AV5GA	T-11 or T-12	Beam Pent.	6CK-0-0	Cathode	12.6	0.600	0.5*	14.0*	7.0*	Characteristics Same as Type 6AV5GA. (12AV5GA Designed for Series String TV Receivers).										12AV5GA
12AV6	T-5½	Duodiode Tri.	7BT-0-0	Cathode	12.6	0.15	.....	.....	.....	Characteristics Same as Type 6AV6.										12AV6
12AV7	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.225	1.9	3.2	1.3	100	9.0	.....	.....	6,100	6,100	37	.....	12AV7		
12AW6	T-5½	Pentode	7CM-0-7	Cathode	12.6	0.15	.025m*	6.5*	1.5*	150	7.0	.....	.....	0.8 Meg.	5,000	41	.....	12AW6		
12AX4GT	T-9	Diode	4CG-0-0	Cathode	12.6	0.600	.....	.....	.....	P.I.V. = 4,400 Volts Max., D-C Plate Current = 125 Ma. Max. (12AX4GT Designed for Series String TV Receivers).										12AX4GT
12AX4GTA	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.600	1.7*	1.6*	0.46*	100	0.5	.....	.....	80,000	1,250	100	.....	12AX4GTA		
12AX7	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.30	1.7*	1.6*	0.34*	250	1.2	.....	.....	62,500	1,600	100	.....	12AX7		
12AY7	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.15	1.3*	1.3*	0.6*	250	3.0	.....	.....	1,750	40	.....	.....	12AY7		
12AZ7	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.45	1.9	3.2	1.3	100	3.7	.....	.....	15,000	4,000	60	.....	12AZ7		
12BA	T-6½	Triode	9AG-0-0	Cathode	12.6	0.63/0.300	4.0	6.2	4.2	150	35	.....	.....	10,900	5,500	60	.....	12BA		
12BA4	T-6½	Triode	9AG-0-0	Cathode	12.6	0.600/0.300	4.0	6.2	4.2	Max. Peak Pos. Pulse Plate Voltage = 1,000 Volts Max., D.C. Cathode Current = 30 Ma. Max. Plate Dissipation = 6 Watts. (12BA4 Designed for Series String TV Receivers).										12BA4
Now Known as Type 14A7																				
12B7	T-9	Pentode Tri.	8T-0-1	Cathode	12.6	0.30	.015*	5.2*	9.6*	90	7.0	.....	.....	300,000	1,800	90	(Pentode Section)	12B7		
12B8GT	T-9	Pentode Tri.	8T-0-1	Cathode	12.6	0.15	.....	.....	.....	90	2.8	.....	.....	35,000	2,400	90	(Triode Section)	12B8GT		
12BA6	T-5½	Pentode	7BK-0-0	Cathode	12.6	0.15	.....	.....	.....	Characteristics Same as Type 6BA6.										12BA6
12BA7	T-6½	Heptode	8CT-0-688	Cathode	12.6	0.15	.19m	9.5	8.3	Characteristics Same as Type 6BA7.										12BA7
12BD6	T-5½	Pentode	7BK-0-2	Cathode	12.6	0.15	0.004	4.3	5.0	Characteristics Same as Type 6BD6.										12BD6
12BE6	T-5½	Heptode	7CH-0-0	Cathode	12.6	0.15	.....	.....	.....	Characteristics Same as Type 6BE6.										12BE6
12BF6	T-5½	Duodiode Tri.	7BT-0-0	Cathode	12.6	0.15	2.0	1.8	1.1	250	9.0	.....	.....	8,500	1,900	16	.....	12BF6		
12BH7	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.600/0.300	2.4	3.0	2.0	250	10.5	.....	.....	3100	3100	17	.....	12BH7		
12BH7A	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.300	2.4	3.0	2.0	Max. Peak Pos. Pulse Plate Voltage = 1,350 Volts Max., D.C. Cathode Current = 20 Ma. Max. Plate Dissipation = 3.5 Watts. (12BH7A Designed for Series String TV Receivers).										12BH7A
12BK5	T-6½	Beam Amp.	9BQ-0-0	Cathode	12.6	0.600	0.6*	13.0*	5.0*	Characteristics Same as Type 6BK5. (12BK5 Designed for Series String TV Receivers).										12BK5
12BK6	T-5½	Duodiode Tri.	7BT-0-2	Cathode	12.6	0.15	.....	.....	.....	100	0.5	.....	.....	80,000	1,250	100	.....	12BK6		
12BN6	T-5½	Pentode	7DF-0-1	Cathode	12.6	0.15	.....	.....	.....	65	1.3	.....	.....	60,000	1,600	100	.....	12BN6		
12BQ6GA	T-11	Beam Amp.	6AM-0-0	Cathode	12.6	0.600	0.8*	14.0*	6.5*	Characteristics Same as Type 6BQ6GA. (12BQ6GA and 12BQ6GTA Designed for Series String TV Receivers).										12BQ6GA
12BQ6GTA	T-9	Beam Amp.	6AM-0-0	Cathode	12.6	0.600	0.6*	15.0*	7.5*	Characteristics Same as Type 6BQ6GTA. (12BQ6GTA and 12BQ6GTA Designed for Series String TV Receivers).										12BQ6GTA
12BR7	T-6½	Duodiode Tri.	9CF	Cathode	12.6	0.600/0.450	1.9	2.8	1.0	100	3.7	.....	.....	15,000	4,000	60	.....	12BR7		
12BT6	T-5½	Duodiode Tri.	7BT-0-2	Cathode	12.6	0.15	.....	.....	.....	250	10.0	.....	.....	10,900	5,500	60	.....	12BT6		
12BU6	T-5½	Duodiode Tri.	7BT-0-2	Cathode	12.6	0.15	.....	.....	.....	100	0.8	.....	.....	54,000	1,300	70	.....	12BU6		
12BV7	T-6½	Pentode	9BF-0-3&9	Cathode	12.6	0.300/0.600	0.055*	11.0*	3.0*	250	3.0	.....	.....	58,000	1,500	70	.....	12BV7		
12BW4	T-6½	Duodiode	9DJ	Cathode	12.6	0.450	.....	.....	.....	250	2.5	.....	.....	11,000	13,000	16	.....	12BW4		
12BY7	T-6½	Pentode	9BF-0-3&4	Cathode	12.6	0.3	0.063*	10.2*	3.5*	Characteristics Same as Type 6BW4.										12BY7
12BZ7	T-6½	Duodiode	9A-0-0	Cathode	12.6	0.6/0.3	0.45	6.5	9.0*	250	2	.....	.....	31,800	3,900	100	Count Sec. 1 = 0.7 $\mu\mu\text{f}$ .	12BZ7		
12C5	T-5½	Beam Amp.	7CV-0-0	Cathode	12.6	0.600	0.55*	13.0*	9.0*	110	49	.....	.....	10,000	7,500	.....	2,500	1,900	12C5	
12C8	Metal	Duodi. Pent.	8E-1-1	Cathode	12.6	0.15	.005m	6.0	9.0	Characteristics Same as Type 6B8.										12C8
12CA5	T-5½	Beam Pent.	7CV-0-0	Cathode	12.6	0.600	0.5*	15.0*	9.0*	Characteristics Same as Type 6CA5. (12CA5 Designed for Series String TV Receivers).										12CA5
12CM6	T-6½	Beam Amp.	9CK-0-0	Cathode	12.6	0.925	0.7*	8.0*	8.5*	Characteristics Same as Type 6CM6.										12CM6
12CR6	T-5½	Diode Pent.	7EA	Cathode	12.6	.15	.....	.....	.....	250	2	.....	.....	800,000	2,200	.....	.....	12CR6		
12CS5	T-6½	Pentode	12CS5	Cathode	12.6	0.600	0.5	15	9	Characteristics Same as Type 6CS5. (12CS5 Designed for Series String TV Receivers).										12CS5

(1) Values are given shielded unless marked with (\*).  
 (2) Converter tube capacitances given are signal grid to plate; RF Input, Mixer Output.  
 † For two tubes with 40 volts RMS applied to each grid.  
 ‡ Controlled Heater Warm-up Time, applies only for 600 Ma. condition.  
 § Has special mechanical and/or life characteristics.  
 ¶ With Average Power Input of 350 Mw. Grid to Grid.  
 \*\* Plate and Target Supply Voltage.  
 †† Applied through 250,000 ohms.  
 ‡‡ Conversion Transconductance.  
 ††† Triode Operation.  
 †††† Pentode Operation.  
 ††††† Plate to Plate.  
 †††††† Approximate.  
 ††††††† maximum Cathode Resistor (ohms).