

**1.3. RF/VHF/UHF Amplifier Transistors**

**1-3-1. SOT-23 Type Transistors**

Device NPN	Condition		f <sub>T</sub> (MHz)		C <sub>OB</sub> (pF) MAX	V <sub>CEO</sub> (V)	G <sub>PE</sub> (dB) MIN	Condition		h <sub>FE</sub>		NF(dB)		I <sub>AGC</sub> (mA) MAX	Condition Gain Reduction (dB)
	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	MIN	TYP				V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	MIN	MAX	MAX	Condition f (MHz)		
KSC2734(H8Z)	10	10	1400	3500	1.5	12		10	5	20	200				
KSC3120(H9Z)	10	2	1500	2400	#0.9	15	\$12	10	5	40	200	*8	800		
KSC2759(H6X)	10	5	1250	2000	1.3	14	&10	10	5	40	180				
KST5179	6	5	900	2000	@1	12	15	1	3	25	250	4.5	200		
KSC2757(H3X)	10	5	800	1100	1.5	15		10	5	60	240			11	30
KSC2758(H4Z)	10	3	750	1000	0.8	25	14	10	3	60	240	4.5	900		
KST10(3E)	10	4	650		@0.7	25		10	4	60					
KSC2756(H2X)	10	5	500	850	#0.5	20	\$15	10	5	60	240	*6.5	200		
KST24(3A)	10	8	400	620	@0.36	30	\$19	10	8	30					
KSC2755(H1X)	10	3	400	600	#0.5	30	20	10	3	60	240	3	200	12	30
KSC2223(H5X)	6	1	400	600	*1	20		6	1	40	180	*3	100		
KSC2751(B1X)	10	1	100		3.2	30	27	12	2	40	240				

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**1.3.2 TO-92S Type Transistors**

Device (NPN)	Condition		f <sub>T</sub> (MHz)		C <sub>OB</sub> (pF) MAX	V <sub>CEO</sub> (V)	G <sub>PE</sub> (dB) MIN	Condition		h <sub>FE</sub>		N <sub>F</sub> (dB) MAX	Condition f <sub>T</sub> (MHz)
	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	MIN	TYP				V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	MIN	TYP		
KSC2669	10	1	100	250	3.2	30		12	2	40		240	
KSC2786	6	1	400	600	*1.2	20	18	6	1	40		240	5
KSC2787	6	1	150	300	2.5	30		6	1	40		240	

**1-3-2 TO-92 Type Transistors**

Device NPN	Condition		f <sub>T</sub> (MHz)		C <sub>OB</sub> (pF) MAX	V <sub>CEO</sub> (V)	G <sub>PE</sub> (dB) MIN	Condition		h <sub>FE</sub>		NF(dB)		I <sub>AGC</sub> (mA) MAX	Condition Gain Reduction (dB)
	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	MIN	TYP				V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	MIN	MAX	MAX	Condition f (MHz)		
KSP5179	6	5	900	2000	@1	12	15	1	3	25	250	4.5	200		
KSC1730	10	5	800	1100	1.5	15		10	5	40	240				
KSP17	10	5	800		@0.9	15	*24	10	5	25	250	6	200		
KSC1070***	10	3	750	1000	0.8	25	14	10	3	40	200	4	900	11	
SS9018	5	5	700	1100	1.7	15		5	1	28	198				
KSP11	10	4	650		@0.7	25		10	4	60					
KSC1395	10	5	600	1100	1.5	15		10	5	40	240				
KSP24	10	8	400	620	@0.36	30	\$19	10	8	30					
KSC1393	10	3	400	700	#0.5	30	20	10	2	40	240	3	200	12	
KSC1394	10	3	400	700	#0.5	30	20	10	2	40	240	3.5	200		
SS9016	5	1	400	620	1.6	20		5	1	28	198	5	100		
KSC1187	10	3	400	700	#0.6	20	20	10	2	40	240				
KSC1188	10	3	400	700	1	20	20	10	2	40	240				
KSC1674	6	1	400	600	*1.5	20	18	6	1	40	240	5	100		
KSC388	12.5	12.5	300		2	25	28	12	12.5	20	200				
KSC1675	6	1	150	300	2.5	20		6	1	40	240				
KSC838	10	1	100	250	3.2	30		12	2	40	240				

\*=TYP, #=C<sub>RE</sub>, @=C<sub>CB</sub>, \$=G<sub>CE</sub>, &=G<sub>CB</sub>, \*\*\*=DISK TYPE TRANSISTOR

