



BIPOLAR TRANSISTORS CONT.

TCE Type (*complementary device type)	Device Polarity & Material	Application	Maximum Ratings					
			Device Power Dissipatn. P_T W	Collector Current Continuous I_C A	Base Current I_B A	Breakdown Voltages		
						Collector-to-Base BV_{CBO} V	Collector-to-Emitter BV_{CEO} V	Emitter-to-Base BV_{EBO} V
SK9040	NPN/Si	Power Amp. Switching	250	50	20	180	150	6
SK9041	NPN/Si	AF Driver	20	1.5	.....	180 Min	160 Min	5 Min
*SK9042								
SK9042	PNP/Si	AF Driver	20	-1.5	.....	-180	-160	-5
*SK9041								
SK9076	PNP/Si	AF Output, CB Modulator Stage	10	-3	-0.6	-50	-40	-5
*SK3357								
SK9085	NPN/Si	High-Voltage, High-Speed Power Switching	100	12	6	.....	400	9
SK9107	NPN/Si	Amp/Switch	50	4	0.080	80	80	5
*SK9108								
SK9108	PNP/Si	Amp/Switch	50	-4	0.080	-80	-80	-5
*SK9107								
SK9109	NPN/Si	High-Speed Switch	150	10	2.5	.....	400	8
SK9110	NPN/Si	High-Speed Switch	250	50	10	.....	400	8
SK9111	NPN/Si	High-Speed Switch	175	20	2.5	.....	500	8
SK9112	NPN/Si	AF Power Output/Gen. Purpose Amp	50	10	5	.....	80	5
*SK9113								
SK9113	PNP/Si	AF Power Output/Gen. Purpose Amp	50	-10	-5	.....	-80	-5
*SK9112								
SK9114	NPN/Si	High-Speed Switching, DC-to-VHF Amp	2	0.6	.....	75	40	6
*SK9115								
SK9115	PNP/Si	High-Speed Switching, DC-to-VHF Amp	2	0.6	.....	60	60	5
*SK9114								
SK9116	NPN/Si	AF Power Output Stage	30	4	2	.....	60	5
*SK9117								
SK9117	PNP/Si	AF Power Output Stage	30	-4	2	.....	-60	-5
*SK9116								
SK9118	NPN/Si	TV Vert. Deflection Output	25	2	.....	200	150	6
*SK9363								
SK9119	NPN/Si	TV Deflection	50	6	.....	1500	600	5
SK9131	NPN/Si	Fast-Switching, High-Voltage Circuits	150	15	4	.....	450	7
SK9132	PNP/Si	Audio-Frequency AM/FM	0.4	-0.5	.....	-50	-50	-4
*SK3122								
SK9134	NPN/Si	Audio Power Amp	200	30	10	100	100	5
*SK9136								
SK9136	PNP/Si	Power Amp	200	-30	-10	-100	-100	-5
*SK9134								
SK9137	NPN/Si	Low-Frequency Power Amp	0.9	1	120	100	5
*SK9138								
SK9138	PNP/Si	Low-Frequency Power Amp	0.9	-1	-120	-100	-5
*SK9137								

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Operating Characteristics				Switching Characteristics (if any) Max Limits, Resistive Load					RF Functional Data (if any)			Outline No.	TCE Type
Current Gain			Gain-Bandwidth Product f_T MHz	Noise Figure NF	Delay Time t_d μS	Rise Time t_r μS	Storage Time t_s μS	Fall Time t_f μS	Power Gain G_p dB	Test Conditions			
Small Signal h_{ie}	Static h_{FE}	Test Conditions								Power Output $P_{out, Test}$ W	Operating Frequency F_0 MHz		
...	30-120	Vce(V) = 4 Ic(A) = 20	30 Min	...	...	0.35 Max	0.8 Max	0.25 Max	...	...	...	T-043	SK9040
...	100-200	Vce(V) = 5 Ic(A) = 0.15	140 Typ	...	...	...	...	...	...	...	...	T-045	SK9041
...	100-200	Vce(V) = -5 Ic(A) = -0.15	140 Typ	...	...	...	...	...	...	...	...	T-045	SK9042
...	80-220	Vce(V) = -5 Ic(A) = -1	150 Typ	...	...	...	...	...	...	...	...	T-039	SK9076
...	8-40	Vce(V) = 5 Ic(A) = 5	4 Min	...	0.1 Max	1 Max	3 Max	0.7 Max	...	...	...	T-036	SK9085
...	750-18K	Vce(V) = 3 Ic(A) = 2	...	...	...	...	...	...	...	...	...	T-040	SK9107
...	750-18K	Vce(V) = -3 Ic(A) = -2	...	...	...	...	...	...	...	...	...	T-040	SK9108
...	40-500	Vce(V) = 5 Ic(A) = 2.5	...	...	0.2 Max	0.6 Max	1.5 Max	5 Max	...	...	...	T-043	SK9109
...	25 Min	Vce(V) = 5 Ic(A) = 20	...	...	0.3 Max	1 Max	2.5 Max	1 Max	...	...	...	T-043	SK9110
...	40-400	Vce(V) = 5 Ic(A) = 5	...	...	0.25 Max	1.5 Max	2 Max	0.6 Max	...	...	...	T-043	SK9111
...	60 Min	Vce(V) = 1 Ic(A) = 2	50 Typ	...	...	...	0.50 Typ	0.14 Typ	...	...	...	T-036	SK9112
...	60 Min	Vce(V) = -1 Ic(A) = -2	50 Typ	...	...	...	0.50	0.10	...	...	...	T-036	SK9113
...	100-300	Vce(V) = 10 Ic(A) = 0.15	250 Min	...	0.015 Max	0.03 Max	0.25 Max	0.06 Max	...	...	...	T-011	SK9114
...	50 Typ	Vce(V) = 10 Ic(A) = 0.15	200 Min	...	0.012 Max	0.035 Max	0.1 Max	0.04 Max	...	...	...	T-011	SK9115
...	40-120	Vce(V) = 1 Ic(A) = 0.2	50 Typ	...	...	...	0.5 Typ	0.075 Typ	...	...	...	T-036	SK9116
...	40-120	Vce(V) = -1 Ic(A) = -0.2	40 Typ	...	...	...	0.5 Typ	0.050 Typ	...	...	...	T-036	SK9117
...	100-320	Vce(V) = 2 Ic(A) = 0.5	8 Typ	...	...	...	...	...	...	...	...	T-036	SK9118
...	12 Typ	Vce(V) = 5 Ic(A) = 1	3 Typ	...	...	...	...	1 Max	...	...	...	T-043	SK9119
...	...	Vce(V) = Ic(A) =	...	...	...	...	3 Max	0.8 Max	...	...	...	T-047	SK9131
...	100-200	Vce(V) = -3 Ic(A) = -0.01	200	...	...	...	...	...	...	...	...	T-017	SK9132
...	25 Min	Vce(V) = 4 Ic(A) = 5	...	...	...	...	...	...	...	...	...	T-043	SK9134
...	25 Typ	Vce(V) = -4 Ic(A) = -5	...	...	...	...	...	...	...	...	...	T-043	SK9136
...	160-320	Vce(V) = 5 Ic(A) = 0.15	140 Typ	...	...	...	...	...	...	...	...	T-023	SK9137
...	160-320	Vce(V) = -5 Ic(A) = -0.15	140	...	...	...	...	...	...	...	...	T-023	SK9138