

**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
SK3949 *SK3948	PNP/Si	Darlington Power Amp Stage	150	-12	-0.2	-100	-100	-5
SK3958 *SK3959	NPN/Si	Power Amp, High-Speed Switching Circuits	80	10	3	100	100	5
SK3959 *SK3958	PNP/Si	Power Amp, High-Speed Switching Circuits	80	-10	-3	-100	-100	-5
SK3960 *SK3961	NPN/Si	Power Amp, High-Speed Switching Circuits	125	25	5	100	100	5
SK3961 *SK3960	PNP/Si	Power Amp, High-Speed Switching Circuits	125	-25	-5	-100	-100	-5
SK3983	NPN/Si	High-Voltage Power Amplification, Switching	100	3	0.6	500	400	5
SK3984	PNP/Si	RF/IF Amp, Osc., High-Speed Switching	0.3	-0.1	.....	-50	-40	-5
SK3995	NPN/Si	TV Deflection, High-Voltage Switching Power Amp.	150	15	5	600	400	5
SK3996 *SK3997	NPN/Si	Audio Amp Stage	40	4	0.1	80	80	5
SK3997 *SK3996	PNP/Si	Audio Amp Stage	40	-4	-0.1	-80	-80	-5
SK4900	PNP/Ge	High-Current, Gen. Purpose Amp	170	60	10	60	45	30
SK4903 *SK4904	PNP/Si	High-Voltage, High-Power	125	16	5	$V_{CB} = 160$	160	$V_{EB} = 7$
SK4904 *SK4903	NPN/Si	High-Voltage, High-Power	125	16	5	$V_{CB} = 160$	160	$V_{EB} = 7$
SK4906	NPN/Si	High-Current, Gen. Purpose Amp, Switch	2.5	1	.....	60	$V_{CES} = 50$	12
SK4908	NPN/Si	Switching Regulator	100	12	...	500	400	7
SK4909	NPN/Si	Horizontal Deflection Circuits	60	8	2	400	200	6
SK4919	NPN/Si	High-Voltage, Fast Switching Industrial	125	8	4	.....	450	...
SK4939	NPN/Si	VHF, RF Amp	0.15	0.02	...	30	30	4
SK9031 *SK9032	NPN/Si	High-Power AF	150	20	5	160	140	7
SK9032 *SK9031	PNP/Si	High-Power AF	150	-16	-4	-160	-140	-7
SK9033 *SK9034	NPN/Si	High-Power AF Output Stage	250	20	5	140	140	5
SK9034 *SK9033	PNP/Si	High-Power AF Output Stage	250	-20	-5	-140	-140	-5
SK9038	NPN/Si	High-Gain UHF/VHF Driver	3.5	0.4	0.4	40	20	2
SK9039	NPN/Si	High-Speed Switching	175	20	10	...	500	6

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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	Noise Figure	Delay Time	Rise Time	Storage Time	Fall Time	Power Gain	Test Conditions			
Small Signal	Static	Test Conditions								Power Output	Operating Frequency		
h_{ip}	h_{FE}		f_T MHz	NF	t_d μS	t_r μS	t_s μS	t_f μS	G_P dB	P_{OUT} Test W	F_0 MHz		
...	750-18K	Vce(V) = -3 Ic(A) = -6	...	...	...	...	...	...	...	...	...	T-043	SK3949
...	40 Min	Vce(V) = 4 Ic(A) = 1	3 Min	...	...	...	...	...	...	...	...	T-047	SK3958
...	40 Min	Vce(V) = -4 Ic(A) = -1	3 Min	...	...	...	...	...	...	...	...	T-047	SK3959
...	25 Min	Vce(V) = 4 Ic(A) = 1.5	3 Min	...	...	...	...	...	...	...	...	T-047	SK3960
...	25 Min	Vce(V) = -4 Ic(A) = -1.5	3 Min	...	...	...	...	...	...	...	...	T-047	SK3961
...	30-150	Vce(V) = 10 Ic(A) = 0.3	2.5 Min	...	...	...	...	...	...	...	...	T-047	SK3983
...	105 Typ	Vce(V) = -1 Ic(A) = -0.001	1000 Typ	...	...	...	...	...	...	...	...	T-008	SK3984
...	20-140	Vce(V) = 5 Ic(A) = 5	4 Typ	...	...	0.8	3.5	0.6	...	...	...	T-043	SK3995
...	750-2K	Vce(V) = 3 Ic(A) = 2	...	...	...	...	...	...	...	...	...	T-045	SK3996
...	750 Min	Vce(V) = -3 Ic(A) = -2	...	...	...	...	...	...	...	...	...	T-045	SK3997
...	60-180	Vce(V) = V _{CB} = 2 Ic(A) = 15	...	...	...	...	...	...	...	...	...	T-043	SK4900
...	35 Typ	Vce(V) = 2 Ic(A) = 8	1 Min	...	...	...	...	...	...	...	...	T-099	SK4903
...	35 Typ	Vce(V) = 2 Ic(A) = 8	1 Min	...	...	...	...	...	...	...	...	T-099	SK4904
...	4K-40K	Vce(V) = 5 Ic(A) = 1	100-1000	...	...	...	...	...	...	...	...	T-103	SK4906
...	15-40	Vce(V) = 5 Ic(A) = 1.6	20 Typ	...	...	...	...	...	...	...	...	T-048	SK4908
...	375 Min	Vce(V) = 5 Ic(A) = 4	...	...	t _{on} = 0.3	...	0.55	0.20	...	...	...	T-085	SK4909
...	...	Vce(V) = Ic(A) =	...	...	t _{on} = 1	...	4	0.8	...	...	...	T-087	SK4919
...	60-200	Vce(V) = 10 Ic(A) = 0.02	530 Typ	2.5dB Typ	...	...	...	...	23 Typ	...	200	T-088	SK4939
...	15-60	Vce(V) = 4 Ic(A) = 8	2 Typ	...	...	...	...	...	...	...	...	T-043	SK9031
...	15-60	Vce(V) = -4 Ic(A) = -8	2 Min	...	...	...	...	...	...	...	...	T-043	SK9032
...	25-150	Vce(V) = 2 Ic(A) = 5	2 Min	...	...	...	...	...	...	...	...	T-043	SK9033
...	25-150	Vce(V) = -2 Ic(A) = -5	2 Min	...	...	...	...	...	...	...	...	T-043	SK9034
...	10-200	Vce(V) = 5 Ic(A) = 0.1	500 Min	...	...	...	...	...	10 Min	1	175	T-005	SK9038
...	15-75	Vce(V) = 5 Ic(A) = 5	5-40	...	0.08 Typ	0.55 Typ	0.7 Typ	0.11 Typ	...	...	...	T-043	SK9039