



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
SK9412	NPN/Si	High-Voltage, High-Current TV	2	1	....	325	300	6
SK9413 *SK9415	NPN/Si	High-Current Switching, AF Power Output	100	12	....	160	140	6
SK9415 *SK9413	PNP/Si	High-Current Switching, AF Power Output	100	-12	....	-160	-140	-6
SK9417	NPN/Si	AF Power Amp, Switch	10	1.5	0.15	150	60	8
SK9418	NPN/Si	AF Small-Signal Amp	0.75	2	....	40	32	5
SK9421	NPN/Si	High-Speed Switching	80	10	1	150	100	8
SK9422	NPN/Si	TV Horiz. Deflection	70	6	....	1500	800	7
SK9424 *SK9423	PNP/Si	Low-Noise Differential Amp	0.4	-0.05	....	-100	-100	-5
SK9425 *SK9426	NPN/Si	Low-Noise Differential Amp	0.4	0.1	....	50	50	5
SK9427 *SK9428	NPN/Si	Low-Noise Differential Amp	0.4	0.1	....	100	100	5
SK9428 *SK9427	PNP/Si	Low-Noise Differential Amp	0.4	-0.1	....	-100	-100	-5
SK9429 *SK9430	NPN/Si	High-Current Driving; PC Printers	150	15	....	160	160	5
SK9431	NPN/Si	High-Voltage, Low-Speed Industrial Switching	40	5	0.5	500	300	10
SK9432	NPN/Si	VHF Mixers in TV Receivers	0.625	0.1	....	40	30	4
SK9433 *SK9434	NPN/Si	High-Speed Switching	0.6	0.5	....	60	40	5
SK9434 *SK9433	PNP/Si	High-Speed Switching	0.6	-0.5	....	-60	-40ms	-5
SK9435	NPN/Si	Horiz. Drive, High-Voltage Linear Circuits	10	1	....	180	180	5
SK9436 *SK9437	NPN/Si	Amp, Driver	10	2	....	50	40	12
SK9437 *SK9436	PNP/Si	Amp, Driver	10	-2	....	-50	-40	-10
SK9438 *SK9439	NPN/Si	AF Amp, Power Switching	150	12	0.2	80	80	5
SK9439 *SK9438	PNP/Si	AF Amp, Power Switching	150	-12	-0.2	-80	-80	-5
SK9440 *SK9441	NPN/Si	AF Amp, Power Switching	160	20	0.5	100	100	5
SK9441 *SK9440	PNP/Si	AF Power Amp, Switching Circuits	160	-20	-0.5	-100	-100	-5
SK9442 *SK9443	NPN/Si	Preamp Input Circuits	0.625	0.5	60 Min	$V_{CES} = 60$	10

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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_{ie}	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_D MHz		
...	25 Min	Vce(V) = 10 Ic(A) = 0.05	30-300	.....	.....	.....	.....	.....	.....	.....	.....	T-063	SK9412
...	60-200	Vce(V) = 5 Ic(A) = 1	15 Typ	.....	.....	.....	6.68 Typ	0.68 Typ	.....	.....	.....	T-048	SK9413
...	60 Min	Vce(V) = -5 Ic(A) = -1	15	.....	.....	.....	6.68 Typ	0.68 Typ	.....	.....	.....	T-048	SK9415
...	4K-30K	Vce(V) = 2 Ic(A) = 1	.....	.....	.....	.....	1 Typ	1 Typ	.....	.....	.....	T-055	SK9417
..	120-390	Vce(V) = 3 Ic(A) = 0.5	100	.....	.....	.....	.....	.....	.....	.....	.....	T-010	SK9418
...	6K Typ	Vce(V) = 2 Ic(A) = 10	.....	.....	.....	.....	1 Typ	0.6 Typ	.....	.....	.....	T-056	SK9421
.....	8 Min	Vce(V) = 5 Ic(A) = 1	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-048	SK9422
.....	400-800	Vce(V) = -6 Ic(A) = -0.001	150	0.5dB	.....	.....	.....	.....	.....	.....	.....	T-057	SK9424
...	400-800	Vce(V) = 6 Ic(A) = 0.001	150	0.5dB	.....	.....	.....	.....	.....	.....	.....	T-057	SK9425
...	400-800	Vce(V) = 6 Ic(A) = 0.001	100	.....	.....	.....	.....	.....	.....	.....	.....	T-058	SK9427
...	400-800	Vce(V) = -6 Ic(A) = -0.001	100	.....	.....	.....	.....	.....	.....	.....	.....	T-058	SK9428
...	120-240	Vce(V) = 5 Ic(A) = 1	80	.....	.....	.....	.....	.....	.....	.....	.....	T-064	SK9429
..	600-3000	Vce(V) = 2 Ic(A) = 2	.....	.....	.....	.....	12 Typ	6 Typ	.....	.....	.....	T-036	SK9431
...	30 Min	Vce(V) = 10 Ic(A) = 0.008	620	.....	.....	.....	.....	.....	.....	.....	.....	T-019	SK9432
...	50-300	Vce(V) = 1 Ic(A) = 0.15	400	.....	.....	.....	0.225	0.275	.....	.....	.....	T-021	SK9433
...	50-300	Vce(V) = -2 Ic(A) = -0.15	400	.....	.....	.....	0.225	0.255	.....	.....	.....	T-021	SK9434
.....	40 Min	Vce(V) = 10 Ic(A) = 0.01	35 Min	.....	.....	.....	.....	.....	.....	.....	.....	T-029	SK9435
.....	25K-150K	Vce(V) = 5 Ic(A) = 0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-029	SK9436
...	25K-150K	Vce(V) = -5 Ic(A) = -0.2	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-029	SK9437
.....	750-18K	Vce(V) = 3 Ic(A) = 6	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-043	SK9438
...	750-18K	Vce(V) = -3 Ic(A) = -6	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-043	SK9439
.....	750-18K	Vce(V) = 3 Ic(A) = 10	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-043	SK9440
.....	750-18K	Vce(V) = -3 Ic(A) = -10	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-043	SK9441
...	10K Min	Vce(V) = 5 Ic(A) = 0.01	.....	.....	.....	.....	.....	.....	.....	.....	.....	T-021	SK9442