


**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
SK9654	NPN/Si	UHF Communications	46	7	.....	36	16	4
SK9655	NPN/Si	UHF Communications	46	7	.....	36	16	4
SK9656	NPN/Si	UHF Communications	75	10	.....	36	16	4
SK9657	NPN/Si	UHF Communications	70	7.5	.....	36	18	4
SK9658	NPN/Si	UHF Multiplier	3.5	0.4	.....	50	30	5
SK9659	NPN/Si	High-Band VHF	7	0.5	.....	36	18	4
SK9660	NPN/Si	VHF RF Power Amp	15	0.6	.....	36	18	4
SK9661	NPN/Si	Low-Voltage Output Amp	0.6	0.5	.....	25	20	12
SK9662	PNP/Si	Audio Frequency Power Amp	0.75	-0.7	.....	-80	-80	-5
SK9663	NPN/Si	RF Amp	0.3	0.05	.....	30	19	4
SK9664	NPN/Si	Audio Frequency Small-Signal Amp	0.3	0.1	.....	50	40	5
SK9665	PNP/Si	Audio Frequency Small-Signal Amp	0.3	-0.1	.....	-50	-40	-5
SK9666	NPN/Si	Audio Frequency Power Amp	1	1	.....	80	80	5
SK9667	PNP/Si	Audio Frequency Power Amp	1	-0.7	.....	-80	-80	-5
SK9668	NPN/Si	Audio Frequency Amp	1	2	.....	40	32	5
SK9669	PNP/Si	Audio Frequency Power Amp	1	-2	.....	-40	-32	-5
SK9670	NPN/Si	Audio Frequency Power Amp	1	1	.....	120	80	5
SK9671	NPN/Si	RF Low-Noise Amp	0.25	0.05	.....	30	14	3
SK9672	NPN/Si	Audio Amp	0.2	0.1	.....	120	120	5
SK9720	NPN/Si	AF Amp	1	0.7	.....	20	20	15
SK9741	PNP/Si	Inverters, Interface, Driver	0.3	0.1	.....	.....	.....	.....
SK9742	NPN/Si	Inverters, Interface, Driver	0.3	0.1	.....	.....	.....	.....
SK9840	NPN/Si	Gen. Purpose Amp	.....	.....	.....	100	80	5
SK9841	PNP/Si	Gen. Purpose Amp	.....	.....	.....	100	80	5



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	$t_d$ $\mu S$	$t_r$ $\mu S$	$t_s$ $\mu S$	$t_f$ $\mu S$	$G_p$ dB	$P_{OUT Test}$ W	$F_0$ MHz		
...	20 Min	Vce(V) = 6 Ic(A) = 1	....	....	..	..	..	..	5.2 Min	15 Min	836	T-078	<b>SK9654</b>
...	20 Min	Vce(V) = 6 Ic(A) = 1	..	..	..	..	..	..	6 Min	18 Min	836	T-077	<b>SK9655</b>
...	20 Min	Vce(V) = 6 Ic(A) = 1	..	..	..	..	..	..	5 Min	25 Min	836	T-077	<b>SK9656</b>
.....	15 Min	Vce(V) = 5 Ic(A) = 1	..	..	..	..	..	..	5.5 Min	25 Min	836	T-079	<b>SK9657</b>
.....	30-300	Vce(V) = 15 Ic(A) = 0.05	1800 Typ	..	..	..	..	..	7.2 Typ	....	216	T-005	<b>SK9658</b>
...	..	Vce(V) = Ic(A) =	350 Typ	..	..	..	..	..	7.3 Typ	4	175	T-134	<b>SK9659</b>
....	5 Min	Vce(V) = 5 Ic(A) = 0.1	..	..	..	..	..	..	8.2 Min	3	175	T-072	<b>SK9660</b>
...	400-800	Vce(V) = 2 Ic(A) = 0.5	200 Typ	..	..	..	..	..	....	....	....	T-090	<b>SK9661</b>
...	120-270	Vce(V) = -3 Ic(A) = -0.1	100 Typ	....	....	....	....	....	....	....	....	T-091	<b>SK9662</b>
....	39-82	Vce(V) = 10 Ic(A) = 0.005	1100 Typ	..	..	..	..	..	....	....	....	T-092	<b>SK9663</b>
...	180-390	Vce(V) = 6 Ic(A) = 0.001	180 Typ	....	....	....	....	....	....	....	....	T-091	<b>SK9664</b>
....	120-560	Vce(V) = -6 Ic(A) = -0.001	140 Typ	..	..	..	..	..	....	....	....	T-091	<b>SK9665</b>
..	82-390	Vce(V) = 3 Ic(A) = 0.1	120 Typ	....	....	....	....	....	....	....	....	T-091	<b>SK9666</b>
..	82-390	Vce(V) = -3 Ic(A) = -0.1	100 Typ	..	....	....	....	....	....	....	....	T-092	<b>SK9667</b>
..	82-390	Vce(V) = 3 Ic(A) = 0.5	100 Typ	....	....	....	....	....	....	....	....	T-092	<b>SK9668</b>
...	120-270	Vce(V) = -3 Ic(A) = -0.5	100 Typ	....	....	....	....	....	....	....	....	T-092	<b>SK9669</b>
..	120-270	Vce(V) = 3 Ic(A) = 0.5	100 Typ	....	....	....	....	....	....	....	....	T-092	<b>SK9670</b>
...	25-200	Vce(V) = 10 Ic(A) = 0.01	2 Typ	3dB Typ @ 500MHz	..	..	..	..	15 Typ	....	500	T-093	<b>SK9671</b>
..	200-400	Vce(V) = 6 Ic(A) = 0.002	100 Typ	1dB Typ @ 1KHz	..	..	..	..	....	....	....	T-094	<b>SK9672</b>
...	1000-2500	Vce(V) = 10 Ic(A) = 0.15	..	..	..	..	..	..	....	....	....	T-097	<b>SK9720</b>
.....	.....	Vce(V) = Ic(A) =	250 Typ	..	..	..	..	..	....	....	....	T-098	<b>SK9741</b>
.....	...	Vce(V) = Ic(A) =	250 Typ	....	....	....	....	....	....	....	....	T-098	<b>SK9742</b>
...	40-250	Vce(V) = 2 Ic(A) = 0.5	50-400	....	....	....	....	....	....	....	....	T-100	<b>SK9840</b>
....	40-250	Vce(V) = 2 Ic(A) = 0.25	50 Min	....	....	....	....	....	....	....	....	T-100	<b>SK9841</b>