

Silicon NPN Transistors

Type	Construction	P <sub>c</sub> Max. (mW)	Typical f <sub>T</sub> or *f <sub>T</sub> † fab (MHz)	Absolute Max. Ratings				Typical h <sub>FE</sub> at (mA) (or *h <sub>fe</sub> )	Max I <sub>CBO</sub> at V <sub>CB</sub>		Application	Base Ref.
				V <sub>CB0</sub> (V)	V <sub>CE0</sub> (V)	V <sub>EB0</sub> (V)	I <sub>C</sub> (mA)		μA	V		

TEXAS (Continued)

Current Types (Continued)

2N2865	PE	200	600	25	3	3	50	20‡ at 4	—	—	H.F. amplifiers	2	
TIS84	P	250	—	40	30	4	50	30‡ at 4	0.05	10	Tuner R.F. amplifiers	24	
TIS85	P	250	—	40	30	4	50	25‡ at 4	0.05	10	I.F. amplifiers	24	
2N3707	P	250	—	30	30	6	30	250 at 0.1	0.1	20	Low noise amplifiers	24	
2N3708	P	250	—	30	30	6	30	358 at 1	0.1	20	General purpose	24	
2N3709	P	250	—	30	30	6	30	105 at 1	0.1	20		24	
2N3710	P	250	—	30	30	6	30	210 at 1	0.1	20		24	
2N3711	P	250	—	30	30	6	30	420 at 1	0.1	20		24	
BF595	—	250	200	30	20	—	30	80 at 1	—	—		I.F. amplifiers	24
2N3825	PE	250	200	30	15	4	100	20‡ at 2	0.1	15		A.M. receivers	24
BF594	—	250	260	30	20	—	30	142 at 1	—	—	I.F. amplifiers	24	
TIS60	PE	300	—	40	25	5	400	160 at 50	0.1	20	General purpose	24	
TIS60M	PE	300	—	40	25	5	400	160 at 50	0.1	20		24	
2N4010	P	300	—	60	60	10	50	500‡ at 1	0.01	45		2	
2N2432	PE	300	20	30	30	15	100	50‡ at 1	—	—	Choppers	2	
2N929	P	300	30	45	45	5	30	40‡ at 0.01	—	—	Low level, low noise amps.	2	
2N930	P	300	30	45	45	5	30	100‡ at 0.01	—	—		2	
2S501	P	300	30	25	25	5	30	40‡ at 0.01	—	—		2	
2S502	P	300	30	25	25	5	30	100‡ at 0.01	—	—		2	
2S503	P	300	30	25	25	5	30	180‡ at 0.01	—	—		2	
BC182	PE	300	150	60	50	5	200	290 at 2	0.015	50		2	
BC183	PE	300	150	45	30	5	200	475 at 2	0.015	30	2		
BC184	PE	300	150	45	30	5	200	250‡ at 2	0.015	30	2		
BC107	PE	300	225	45	45	5	100	310 at 2	0.015	45	2		
BC108	PE	300	225	20	20	5	100	310 at 2	0.015	20	2		
BC109	PE	300	225	20	20	5	100	570 at 2	0.015	20	2		
2N3117	P	360	—	60	60	6	50	400‡ at 1	0.01	45	Low level amplifiers	2	
2N2483	P	360	—	60	60	6	50	175‡ at 1	0.01	45	Low level, low noise amps.	2	
2N2484	P	360	—	60	60	6	50	250‡ at 1	0.01	45	2		
2N5399	PE	360	—	25	15	2	100	60 at 15	0.01	15	V.H.F./U.H.F. amplifiers	2	
BF237	PE	360	80	45	30	4	30	30‡ at 1	0.1	20	General purpose	24	
BF238	PE	360	80	45	30	4	30	70‡ at 1	0.1	20		24	
2N3704	PE	360	100	50	30	5	800	200 at 50	0.1	20	Audio amplifiers	24	
2N3705	PE	360	100	50	30	5	800	100 at 50	0.1	20		24	
2N3706	PE	360	100	40	20	5	800	315 at 50	0.1	20		24	
BF596	—	360	400	40	30	—	30	26‡ at 4	—	—	Video I.F. amplifiers	24	
BF597	—	360	550	40	25	—	30	38‡ at 7	—	—		24	
TIS86	PE	400	—	30	30	4	50	120 at 4	0.1	15	Mixer	24	
TIS87	PE	400	—	45	45	4	50	90 at 12	0.1	15	I.F. amplifier	24	
2N717	DDP	400	30	60	40	5	—	40 at 150	1	30	Amps./osc.	2	
2N718	DDP	400	30	60	40	5	—	80 at 150	1	30		2	
2N719	DDP	400	30	120	80	5	—	40 at 150	2	60		2	
2N720	DDP	400	30	120	80	5	—	80 at 150	2	60		2	
2S731	P	400	30	30	30	3	50	20*‡ at 5	—	—	H.F. amplifiers	2	
2S732	P	400	30	30	30	3	50	40*‡ at 5	—	—		2	
2S733	P	400	30	30	30	3	50	80*‡ at 5	—	—		2	
2S102	P	400	150	60	60	4.5	50	20*‡ at 5	—	—		2	
2S103	P	400	150	60	60	4.5	50	40*‡ at 5	—	—		2	
2S104	P	400	150	60	60	4.5	50	80*‡ at 5	—	—		2	
BFW31	PE	500	—	50	30	5	700	270* at 10	0.5	30	General purpose	2	
2N720A	DDP	500	30	120	100	7	—	80 at 150	0.01	90	Amps./osc.	2	
2N731	DDP	500	30	60	40	5	1A	80 at 150	1	30		2	
2N870	DDP	500	30	100	80	7	—	80 at 150	0.01	75		2	
2N871	DDP	500	30	100	80	7	—	200 at 150	0.01	75		2	
2N956	DDP	500	30	75	50	7	—	200 at 150	0.01	60	2		
2N2220	PE	500	250	60	30	5	800	20‡ at 150	—	—	H.F. medium power	2	
2N2221A	PE	500	250	60	30	5	800	40‡ at 150	—	—		2	
2N2222	PE	500	250	60	30	5	800	100‡ at 150	—	—		2	
2N2539	PE	500	250	60	30	5	800	50*‡ at 150	—	—		2	
2N2540	PE	500	250	60	30	5	800	100*‡ at 150	—	—		2	

Continued