

Silicon NPN Transistors

Type	Con- struction	P _c Max. (mW)	Typical f _T or *f _i + f _{ab} (MHz)	Absolute Max. Ratings				Typical h _{FE} at (mA) (or *h _{fe})	Max I _{CBO} at V _{CB}		Application	Base Ref.
				V _{CBO} (V)	V _{CEO} (V)	V _{EBO} (V)	I _C (mA)		μA	V		
TEXAS (Continued)												
<i>Current Types (Continued)</i>												
2N2222A	PE	500	300	75	40	6	800	200 at 150	0.01	60	General purpose	2
2N3303	PE	600	—	25	12	4	1A	75 at 300	—	—	Fast switching	2
2N699	DDP	600	30	120	80	5	—	80 at 150	2	60	Amps./osc.	2
2N1420	DDP	600	30	60	30	5	1A	200 at 150	1	30		2
2N696	P	600	40	60	40	5	500	20‡ at 150	—	—	Medium power	2
2N697	P	600	50	60	40	5	500	40 at 150	—	—		2
TIS90	PE	625	—	40	40	5	400	160 at 50	0.1	20	General purpose	24
TIS90M	PE	625	—	40	40	5	400	160 at 50	0.1	20		24
TIS92	PE	625	—	40	40	5	400	160 at 50	0.1	20		24
TIS92M	PE	625	—	40	40	5	400	160 at 50	0.1	20		24
BSS34	—	625	90	100	80	—	200	50‡ at 10	—	—	Indicator tube driver	24
BSS35	—	625	90	120	100	—	200	40‡ at 10	—	—		24
BFY50	PE	800	—	80	80	6	1A	—	0.05	60	General purpose	2
BFY51	PE	800	—	60	60	6	1A	—	0.05	40		2
BFY52	PE	800	—	40	40	6	1A	—	0.05	30		2
2N3036	PE	800	—	120	80	7	1.2A	100 at 150	0.01	60	General purpose	2
2N3418	PE	800	—	85	60	8	3A	40 at 1A	—	—		2
2N3419	PE	800	—	125	80	8	3A	40 at 1A	—	—		2
2N3420	PE	800	—	85	60	8	3A	80 at 1A	—	—		2
2N3421	PE	800	—	125	80	8	3A	80 at 1A	—	—	2	
2N3724	PE	800	—	50	30	6	500	35‡ at 500	1.7	40	High speed switching	2
2N3725	PE	800	—	80	50	6	500	35‡ at 500	1.7	40		2
2N1714	tDM	800	16	—	60	6	750	40 at 200	—	—	H.F.	2
2N1715	tDM	800	16	—	100	6	750	40 at 200	—	—		2
2N1716	tDM	800	16	—	60	6	750	80 at 200	—	—		2
2N1717	tDM	800	16	—	100	6	750	80 at 200	—	—		2
2N1718	tDM	800	16	—	60	6	750	40 at 200	—	—	16	
2N1719	tDM	800	16	—	100	6	750	40 at 200	—	—	16	
2N1720	tDM	800	16	—	60	6	750	80 at 200	—	—	16	
2N1721	tDM	800	16	—	100	6	750	80 at 200	—	—	16	
2N698	P	800	40	120	80	7	500	20‡ at 150	—	—	Medium power	2
2N1507	DDP	800	50	60	30	5	1A	100‡ at 150	—	—		2
2N1889	DDP	800	50	100	60	7	500	40‡ at 150	—	—	2	
2N1893	DDP	800	50	120	80	7	500	40‡ at 150	—	—	2	
2N2192	PE	800	50	60	40	5	1A	100‡ at 150	—	—	Medium power	2
2N2192A	PE	800	50	60	40	5	1A	100‡ at 150	—	—		2
2N2193	PE	800	50	80	50	8	1A	40‡ at 150	—	—		2
2N2193A	PE	800	50	80	50	8	1A	40‡ at 150	—	—		2
2N2194	PE	800	50	60	40	5	1A	20‡ at 150	—	—	2	
2N2194A	PE	800	50	60	40	5	1A	20‡ at 150	—	—	2	
2N2243	PE	800	50	120	80	7	1A	20‡ at 150	—	—	2	
2N2243A	PE	800	50	120	80	7	1A	40‡ at 150	—	—	2	
2N3036	PE	800	50	120	80	7	1.2A	50‡ at 150	—	—	2	
2N1613	DDP	800	60	75	50	7	500	40‡ at 150	—	—	Medium power	2
2N1890	DDP	800	60	100	60	7	500	100‡ at 150	—	—		2
2N1711	DDP	800	60	75	50	7	1A	100‡ at 150	—	—	2	
BFR39	—	800	100	90	80	—	1A	30‡ at 150	—	—	General purpose	24
BFR40	—	800	100	70	60	—	1A	40‡ at 150	—	—		24
BFR41	—	800	100	60	50	—	1A	60‡ at 150	—	—		24
BF257	PE	800	110	160	160	5	100	25‡ at 30	0.05	100	Video amplifiers	2
BF258	PE	800	110	250	250	5	100	25‡ at 30	0.05	200		2
BF259	PE	800	110	300	300	5	100	25‡ at 30	0.05	250		2
BFR86	—	800	130	120	120	—	400	20‡ at 30	—	—	Video output	24
BFR87	—	800	130	160	160	—	400	20‡ at 30	—	—		24
BFR88	—	800	130	250	250	—	400	20‡ at 30	—	—		24
BFR89	—	800	130	300	300	—	400	20‡ at 30	—	—		24
2N2217	PE	800	250	60	30	5	800	20‡ at 150	—	—	H.F.	2
2N2218	PE	800	250	60	30	5	800	40‡ at 150	—	—		2
2N2218A	PE	800	250	75	40	6	800	80 at 150	0.01	60		2
2N2219	PE	800	250	60	30	5	800	100‡ at 150	—	—		2
2N2219A	PE	800	250	75	40	6	800	200 at 150	0.01	60	2	

Continued