

Silicon NPN Transistors

Type	Con- struction	P _c Max. (mW)	Typical f _T or *f ₁ † fab (MHz)	Absolute Max. Ratings				Typical h _{FE} at (mA) (or *h _{FE})	Max I _{CBO} at V _{CB}		Application	Base Ref.
				V _{CB0} (V)	V _{CE0} (V)	V _{EB0} (V)	I _C (mA)		μA	V		
ZT1481 } 2N1481 }	DJ	5W†	1.5††	60	40	12	1.5A	35‡ at 200	10	60	Switching	2
ZT1482 } 2N1482 }	DJ	5W†	1.5††	100	55	12	1.5A	35‡ at 200	10	100		2
2N3439	DJ	5W	20	450	350	10	1A	100 at 0.02	—	—	General purpose	2
2N3440	DJ	5W	20	300	250	10	1A	100 at 0.02	—	—		2
BSV64	PE	5W	60	100	60	—	5A	20 at 5	—	—		2
ZT90	PE	5W†	60‡	60	60	6	1A	100‡ at 200	0.1	60	Power amplifiers	2
ZT91	PE	5W†	60‡	120	100	6	1A	40‡ at 200	1	120		2
ZT92	PE	5W†	60‡	120	100	6	1A	65‡ at 200	1	120	2	
ZT93	PE	5W†	60‡	120	80	6	1A	40‡ at 150	1	120	2	
ZT94	PE	5W†	60‡	60	45	7	1A	30‡ at 200	1	60	2	
ZT95	PE	5W†	60‡	60	60	6	1A	30‡ at 350	0.1	60	2	
ZT2120 } 2N2120 }	PE	5W†	60‡	120	65	6	1A	40‡ at 150	1	120	High performance amplifiers	2
ZT2270 } 2N2270 }	PE	5W†	60‡	60	60	7	1A	50‡ at 150	0.1	60		Low noise amplifiers
BFX34	PE	5W†	80	120	60	—	5A	60 at 500	—	—	General purpose	2
2N3553	PE	7W†	500‡	65	40	4	1A	2.5W out, 0.25W in at 175MHz	—	—		2
ZT2876 } 2N2876 }	P	7.5W†	200	80	60	4	2.5A	10W out, at 50MHz	0.1	80	A.M., F.M., C.W.	16
2N4041	PE	7.5W†	—	60	40	4	500	3.3W out, 1W in at 400MHz	—	—		41
2N4430	PE	10W†	—	55	40	3.5	1A	2.5W out, 75mW in at 1GHz	—	—		41
ZT3375	PE	11.6W†	500‡	65	40	4	1.5A	7.5W out, 1W in at 50MHz	—	—	V.H.F. power amplifiers	41
2N4040	PE	17.5W†	—	60	40	4	1A	8W out, 3W in at 400MHz	—	—		41
2N4431	PE	18W†	—	55	40	3.5	2A	5W out, 1.6W in at 1GHz	—	—	A.M., F.M., C.W.	41
2N4127	PE	20W†	—	60	40	4	1.5A	12W out, 1.9W in at 150MHz	—	—		41
BUY80	PE	20W†	60	150	60	—	5A	60 at 500	—	—	General purpose	2
2N4000	PE	20W†	60	100	80	—	3A	80 at 500	—	—		2
2N4001	PE	20W†	60	120	100	—	3A	80 at 500	—	—	2	
BUX34	PE	20W†	80	120	60	—	5A	60 at 500	—	—		2
2N3632	PE	23W†	—	65	40	4	3A	13.5W out, 3.5W in at 175MHz	—	—	A.M., F.M., C.W.	38
2N3733	PE	23W†	—	65	40	4	3A	14.5W out, 4W in at 260MHz	—	—		38
BUY81	PE	24W†	60	150	60	—	7.5A	60 at 1A	—	—		2
2N3441	DJ	25W†	0.65	160	140	4	3A	50 at 500	—	—	General purpose	1
ZT1701 } 2N1701 }	DJ	25W†	1††	60	40	6	2.5A	20‡ at 300	100	60		3
ZT1483 } 2N1483 }	DJ	25W†	1.25††	60	40	12	3A	20‡ at 750	15	60	High power switching	3
ZT1484 } 2N1484 }	DJ	25W†	1.25††	100	55	12	3A	20‡ at 750	15	100		3
ZT1485 } 2N1485 }	DJ	25W†	1.25††	60	40	12	3A	35‡ at 750	15	60	3	
ZT1486 } 2N1486 }	DJ	25W†	1.25††	100	55	12	3A	35‡ at 750	15	100	3	
BUY82	PE	30W†	60	150	60	—	10A	60 at 1.5A	—	—		2
2N3418	PE	30W†	60	85	60	—	5A	40 at 500	—	—	General purpose	2
2N3419	PE	30W†	60	125	80	—	5A	40 at 500	—	—		2
2N3420	PE	30W†	60	85	60	—	5A	80 at 500	—	—	2	
2N3421	PE	30W†	60	125	80	—	5A	80 at 500	—	—	2	
2N4128	PE	35W†	—	60	40	4	3A	35‡ at 750	15	—	Switching	41
2N3583	DJ	35W†	10	250	175	10	2A	10‡ at 1A	—	—		1
2N3584	DJ	35W†	10	375	250	10	2A	62 at 1A	—	—	General purpose	1
2N3585	DJ	35W†	10	500	300	10	2A	62 at 1A	—	—		1
BU217	PE	60W†	60	150	60	—	10A	60 at 500	—	—		1
ZT1487 } 2N1487 }	DJ	75W†	1††	60	40	10	6A	15 at 1.5A	25	60	High power switching	1
ZT1488 } 2N1488 }	DJ	75W†	1††	100	55	10	6A	15 at 1.5A	25	100		1

Continued

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				V _{CE0} (V)	V _{CEO} (V)	V _{EBO} (V)	I _C (mA)		μA	V		

R.C.A. (Continued)

Current Types (Continued)

2N3055	H	115W	0.8	—	60	—	9A	45 at 4A	—	—	General purpose	1	
2N6253	H	115W	0.8	—	45	—	9A	45 at 3A	—	—		1	
2N6371	H	117W	0.8	—	40	—	9A	37 at 8A	—	—		1	
40893	PE	120W	5	—	200	—	4A	45 at 2A	—	—	Audio amplifiers	1	
2N3265	—	125W	20	—	90	—	20A	50 at 15A	—	—	High current	27	
2N3266	—	125W	20	—	60	—	20A	50 at 15A	—	—		27	
2N5038	—	140W	60	—	90	—	20A	60 at 12A	—	—	High speed switching	1	
2N5039	—	140W	60	—	75	—	20A	60 at 10A	—	—		1	
2N5671	—	140W	50	—	90	—	25A	60 at 15A	—	—		1	
2N5672	—	140W	50	—	120	—	25A	60 at 15A	—	—		1	
2N6032	—	140W	50	—	90	—	50A	30 at 50A	—	—		1	
2N6033	—	140W	50	—	120	—	50A	30 at 40A	—	—		1	
2N6354	—	140W	60	—	120	—	20A	55 at 10A	—	—		1	
2N6496	—	140W	60	—	110	—	20A	56 at 8A	—	—		1	
2N2015	H	150W	0.8	—	50	—	9A	32 at 5A	50	30		D.C./D.C. converter	5
2N2016	H	150W	0.8	—	65	—	9A	32 at 5A	50	30		Choppers	5
2N2338	H	150W	0.8	—	40	—	9A	37 at 3A	200	30	5		
2N3442	H	150W	0.8	—	140	—	9A	45 at 3A	—	—	General purpose	1	
2N4347	H	150W	0.8	—	120	—	9A	37 at 2A	—	—		1	
2N6254	H	150W	0.8	—	80	—	9A	45 at 5A	—	—		1	
2N6262	H	150W	0.8	—	150	—	9A	45 at 3A	—	—		1	
BUX17	—	175W	2.5	—	150	—	9A	20‡ at 4A	—	—		1	
BUX17A	—	175W	2.5	—	250	—	9A	20‡ at 4A	—	—		1	
BUX17B	—	175W	2.5	—	300	—	9A	15‡ at 4A	—	—		1	
BUX17C	—	175W	2.5	—	350	—	9A	15‡ at 4A	—	—		1	
2N6249	—	175W	2.5	—	200	—	9A	30 at 10A	—	—		Switching	1
2N6250	—	175W	2.5	—	275	—	9A	29 at 10A	—	—			1
2N6251	—	175W	2.5	—	350	—	9A	28 at 10A	—	—	Regulators	1	
40854	—	175W	2.5	—	300	—	9A	8‡ at 10A	—	—		1	
41012	—	175W	60	—	85	—	20A	37 at 10A	—	—	High speed switching	1	
41013	—	175W	60	—	130	—	20A	37 at 10A	—	—		1	
40988	PE	200W	5	—	250	—	4A	45 at 2A	—	—	Audio amplifiers	1	
2N3773	H	250W	0.7	—	140	—	20A	37 at 8A	—	—	General purpose	1	
2N4348	H	250W	0.7	—	120	—	20A	37 at 5A	—	—		1	
2N6259	H	250W	0.7	—	150	—	20A	37 at 8A	—	—		1	
2N3771	H	250W	0.8	—	40	—	30A	37 at 15A	—	—		1	
2N3772	H	250W	0.8	—	60	—	30A	37 at 10A	—	—		1	
2N6257	H	250W	0.8	—	40	—	30A	45 at 8A	—	—		1	
2N5575	H	300W	0.4	—	50	—	60A	25 at 60A	—	—		1	
2N5578	H	300W	0.4	—	70	—	60A	25 at 40A	—	—		1	

‡ Minimum value

SGS-ATES

Current Types

BF457	—	—	—	160	160	—	200	25‡ at 30	—	—	Video output	51
BF458	—	—	—	250	250	—	200	25‡ at 30	—	—		51
BF459	—	—	—	300	300	—	200	25‡ at 30	—	—		51
BFR10	—	—	—	—	40	—	500	65 at 500	—	—	Fast switching	2
BFR11	—	—	—	—	40	—	500	65 at 500	—	—		2
BFR20	—	—	—	—	35	—	500	250 at 150	—	—	General purpose switching	2
BFR21	—	—	—	—	70	—	500	70 at 150	—	—		2
BFW68	—	—	—	—	40	—	50	120 at 10	—	—		2
BFX34	—	—	—	—	60	—	2A	80 at 2A	—	—	Fast switching	2
BFX94A	—	—	—	—	30	—	500	62 at 500	—	—		2
BFX95A	—	—	—	—	30	—	500	125 at 500	—	—		2
BFX96A	—	—	—	—	30	—	500	62 at 500	—	—		2
BFX97A	—	—	—	—	30	—	500	125 at 500	—	—		2
BFY56	—	—	—	—	45	—	500	70 at 150	—	—	General purpose switching	2
BFY56A	—	—	—	—	55	—	500	80 at 150	—	—		2

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