

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 _{CEO} (V)	V _{EBO} (V)	I _C (mA)		μA	V		
2N2297	PE	800	60	80	35	7	1A	80 at 150	—	—	General purpose	2
BSW66	PE	800	80	100	100	6	1A	30 at 500	0.01	50	High inductive load switching	2
BSW67	PE	800	80	120	120	6	1A	30 at 500	0.01	60		2
BSW68	PE	800	80	150	150	6	1A	30 at 500	0.01	75		2
2N2410	PE	800	200	60	30	5	800	75 at 150	0.3	30	High speed switching	2
BSV64	PE	870	100	100	60	—	5A	40† at 2A	—	—	Switching	2
BCX31	PE	880	80	100	80	—	2A	100 at 150	—	—	General purpose	43
BCX32	PE	880	80	80	60	—	2A	110 at 150	—	—		43
BCX33	PE	880	80	60	40	—	2A	120 at 150	—	—		43
BCX34	PE	880	80	40	20	—	2A	140 at 150	—	—		43
BFW17A	PE	1.5W	1,100	40	25	—	300	25† at 150	—	—	R.F.	2
BFW16A	PE	1.5W	1,200	40	25	—	300	25† at 150	—	—		2
2N696	PE	2W	—	60	40	5	500	40 at 150	1	30	General purpose	2
2N697	PE	2W	—	60	40	5	500	75 at 150	1	30		2
BD135	PE	2W	250	45	45	5	350	100 at 150	0.01	30	A.F. amplifier driver	51
BD137	PE	2W	250	60	60	5	350	100 at 150	0.01	30		51
BD139	PE	2W	250	80	80	5	350	100 at 150	0.01	30		51
BLY33	PE	2W	250	66	33	4	500	60 at 200	—	—	V.H.F. amplifiers	2
BLY34	PE	2W	250	40	20	4	500	60 at 200	—	—	Class B amplifiers	2
BF355	P	3W	—	300	225	—	160	—	—	—	TV line driver	2
BF336	P	3W	80	185	180	—	100	20† at 30	—	—	General purpose	2
BF337	P	3W	80	250	200	—	100	20† at 30	—	—		2
BF338	P	3W	80	300	225	—	100	20† at 30	—	—		2
BLX65	PE	3W	1,400	36	18	—	2A	10† at 100	—	—		R.F.
2N4427	PE	3.5W	700	40	20	2	400	105 at 100	—	—	U.H.F. amplifiers	2
BFR94	PE	3.5W	3,500	30	25	—	300	40† at 150	—	—	R.F.	41
BLX91	PE	4W	1,200	65	33	—	800	10† at 100	—	—		41
BLX66	PE	4W	1,400	36	18	—	2A	10† at 100	—	—	R.F.	41
BLX67	PE	4.5W	1,400	36	18	—	2A	10† at 100	—	—		41
2N3053	PE	5W	100	60	40	5	700	150 at 150	—	—	Switching	2
2N3866	PE	5W	700	55	30	3.5	400	105 at 50	—	—	U.H.F. amplifiers	2
BLX92	PE	6W	1,200	65	33	—	2A	10† at 100	—	—	R.F.	41
BD232	D	7W	20	500	300	—	1A	25† at 50	—	—	TV driver	51
2N3553	—	7W	500	65	40	4	350	55 at 250	—	—	U.H.F. tuners	2
BLY98	PE	8W	800	60	33	—	3A	10† at 500	—	—	R.F.	41
BLY53A	PE	8W	1,300	36	18	—	4A	10† at 500	—	—		41
BD160	D	10W	—	250	—	—	7A	—	—	—	Line deflection	1
BLY85	PE	10W	250	40	20	—	3A	10† at 200	—	—	R.F.	41
BLY97	PE	10W	250	66	33	—	3A	10† at 200	—	—		41
BU204	D	10W	7.5	1,300	600	—	3A	2† at 2A	—	—	TV line deflection	1
BU205	D	10W	7.5	1,500	700	—	3A	2† at 2A	—	—		1
BU206	D	10W	7.5	1,700	800	—	3A	1.8† at 2A	—	—		1
BD131	PE	11W	60	45	45	6	2A	165 at 500	5	40	A.F. output	51
2N3375	—	11.6W	500	65	40	4	500	55 at 250	—	—	U.H.F. tuners	38
BLY83	PE	12W	250	66	33	—	2.5A	10† at 1A	—	—	R.F.	41
BLY84	PE	12W	250	40	20	—	2.5A	10† at 1A	—	—		41
BU209	D	12.5W	7	1,700	800	—	4A	2.25† at 7A	—	—	Colour TV line deflection	1
BU207	D	12.5W	7	1,300	600	—	5A	2.25† at 7A	—	—		1
BU208	D	12.5W	7	1,500	700	—	5A	2.25† at 7A	—	—		1
BLX93	PE	12.5W	1,200	65	33	—	3A	10† at 100	—	—	R.F.	41
BD124	PE	15W	60	70	45	6	2A	75 at 500	2	60	TV frame deflection	1
BD133	PE	15W	60	90	60	—	6A	40† at 500	—	—	General purpose	51
BDX35	PE	15W	100	100	60	—	10A	45† at 500	—	—	Switching	51
BDX36	PE	15W	100	120	60	—	10A	45† at 500	—	—		51
BDX37	PE	15W	100	120	80	—	10A	45† at 500	—	—		51
BLX98	PE	21.5W	2,000	40	27	—	4A	20† at 1A	—	—	R.F.	61
810BLY/A	PE	22.5W	300	55	35	—	9A	20† at 1A	—	—		38
2N3632	—	23W	400	65	40	4	1A	—	—	—	V.H.F. transmitters	38
BD233	E	25W	3	45	45	—	6A	25† at 1A	—	—	General purpose	51
BD235	E	25W	3	60	60	—	6A	25† at 1A	—	—		51
BD237	E	25W	3	100	80	—	6A	25† at 1A	—	—		51

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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		

TEXAS (Continued)

Current Types (Continued)

XP43A	DM	300W	2	100	80	—	60A	100 at 10A	—	—	General purpose	1
XP43B	DM	300W	2	120	100	—	60A	100 at 10A	—	—		1

‡ Minimum value

TUNGSRAM

Replacement Types

BF167	PE	130	350	40	30	—	25	—	—	—	TV video I.F.	2
BF173	PE	260	550	40	25	4	25	—	—	—		2
BFW60	PE	300	80	40	35	6	500	70 at 100	0.5	40	General purpose	43
BU105	—	7W	—	1,500	—	6	2A	—	—	—	TV line deflection	1

Current Types

BF115	PE	145	230	50	30	5	30	—	—	—	A.M./F.M.	20
BF200	PE	150	550	30	20	3	20	—	—	—	TV V.H.F. tuners	20
BF181	PE	150	600	30	20	3	20	—	—	—	TV mixers	20
BF180	PE	150	675	30	20	3	20	—	—	—	TV tuners	20
BFY90	PE	200	1,300	30	15	2.5	50	87 at 2	0.01	15	U.H.F. amplifiers	20
BF195	PE	220	200	30	20	5	30	—	—	—	A.M./F.M. input	43
BF194	PE	220	260	30	20	5	30	—	—	—		43
BC147	PE	220	300	50	45	6	100	240 at 2	5	20	A.F. driver	43
BC148	PE	220	300	30	20	5	100	240 at 2	5	20	General purpose	43
BC149	PE	220	300	30	20	5	100	410 at 2	5	20	A.F. input	43
BF196	PE	250	400	40	30	4	25	—	—	—	TV I.F. amplifiers	43
BF197	PE	250	550	40	25	4	25	—	—	—		43
BC107	PE	300	300	50	45	6	100	240 at 2	0.015	20	A.F. driver	2
BC108	PE	300	300	30	20	5	100	240 at 2	0.015	20	General purpose	2
BC109	PE	300	300	30	20	5	100	410 at 2	0.015	20	A.F. input	2
BF337	PE	625	200	50	45	—	1A	350 at 100	—	—	General purpose	50
BF338	PE	625	200	30	25	—	1A	350 at 100	—	—		50
BFX84	PE	800	50	100	60	6	1A	20 at 10	0.05	100	General purpose	2
BFY50	PE	800	50	80	60	6	1A	30 at 150	0.05	80		2
BFY51	PE	800	50	60	60	6	1A	40 at 150	0.05	60		2
BFY52	PE	800	50	40	40	6	1A	60 at 150	0.05	40		2
BD135	PE	2W	250	45	45	5	350	100 at 150	0.01	30	A.F. amplifier driver	51
BD137	PE	2W	250	60	60	5	350	100 at 150	0.01	30		51
BD139	PE	2W	250	80	80	5	350	100 at 150	0.01	30		51
BF336	P	3W	80	185	180	—	0.1	20 at 30	—	—	General purpose	2
BD232	D	7W	20	500	300	—	1A	87 at 50	—	—	TV line driver	51
BD160	D	10W	—	250	—	—	7A	—	—	—	TV line deflection	1
BU204	D	10W	7.5	1,300	600	—	3A	2 at 2A	—	—	TV frame deflection	1
BU205	D	10W	7.5	1,500	700	—	3A	2 at 2A	—	—		1
BU206	D	10W	7.5	1,700	800	—	3A	1.8 at 2A	—	—		1
BD131	PE	11W	60	45	45	6	2A	165 at 500	5	40	A.F. output	51
BU208	D	12.5W	7	1,500	700	—	7.5A	2.25 at 4.5	—	—	TV frame deflection	1
BD124	PE	15W	60	70	45	6	2A	75 at 500	2	60		1
BD133	PE	15W	60	90	60	—	6A	40 at 500	—	—	General purpose	51
BD235	E	25W	3	60	60	—	6A	25 at 1A	—	—		51
BD237	E	25W	3	100	80	—	6A	25 at 1A	—	—	51	
BU126	D	30W	8	750	300	—	6A	37 at 1A	—	—	TV power supplies	1
BD201	E	60W	3	60	45	—	12A	30 at 3A	—	—	General purpose	52
BD203	E	60W	3	60	60	—	12A	30 at 2A	—	—		52
BD181	D	78W	3	55	45	—	15A	45 at 3A	—	—	A.F. amplifiers	1
BDY20	D	115W	1	100	60	7	15A	45 at 4A	5mA	100		1
BD182	D	117W	—	70	60	—	15A	45 at 4A	—	—		1
BD183	D	117W	—	85	80	—	15A	45 at 3A	—	—		1
BD184	D	117W	—	95	90	—	15A	45 at 3A	—	—	1	

‡ Minimum value