



Part Number	Configuration	Type	PD (mW) Power Dissipation	VCBO (V) Collector-Base Voltage	VCEO (V) Collector-Emitter Voltage	IC (mA) Collector Current	hFE		VCE(sat)		fT (MHz) Transition Frequency	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
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2N3828	Single	NPN	300	40	40	100	30/200	12/1	0.3	50/5	360	TO-92
2N3904	Single	NPN	625	60	40	200	100/400	10/1	0.3	50/5	300	TO-92
2N3906	Single	PNP	625	-40	-40	-200	100/400	-10/-1	-0.4	-50/-5	250	TO-92
2N4124	Single	NPN	350	30	25	200	120/360	2/1	0.3	50/5	300	TO-92
2N4126	Single	PNP	625	-25	-25	-200	120/360	-2/-1	-0.4	-50/-5	250	TO-92
2N4400	Single	NPN	625	60	40	600	50/150	150/1	0.4	150/15	200	TO-92
2N4401	Single	NPN	625	60	40	600	100/300	150/1	0.75	500/50	250	TO-92
2N4402	Single	PNP	625	-40	-40	-600	50/150	-150/-2	-0.95	-150/-15	150	TO-92
2N4403	Single	PNP	625	-40	-40	-600	100/300	-150/-1	-0.75	-500/-50	200	TO-92
2N5172	Single	NPN	625	25	25	500	100/500	10/10	0.25	10/1	-	TO-92
2N5400	Single	PNP	625	-130	-120	-600	40/180	-10/-5	-0.5	-50/-5	100	TO-92
2N5401	Single	PNP	625	-160	-150	-600	60/240	-10/-5	-0.5	-50/-5	100	TO-92
2N5550	Single	NPN	625	160	140	600	60/250	10/5	0.25	50/5	100	TO-92
2N5551	Single	NPN	625	180	160	600	80/250	10/5	0.2	50/5	80	TO-92
2N5832	Single	NPN	625	160	140	600	175/500	10/5	0.25	50/5	100	TO-92
2N6517	Single	NPN	625	350	350	500	30/200	30/10	1	50/5	40	TO-92
2N6520	Single	PNP	625	-350	-350	-500	30/200	-30/-10	-1	-50/-5	200	TO-92
2N6727	Single	PNP	1000	-50	-40	-1500	50/250	-1000/-1	-0.5	-1000/-100	50	TO-92
2SA1013	Single	PNP	900	-160	-160	-1000	60/320	-200/-5	-1.5	-500/-50	15	TO-92L
2SA1015K	Single	PNP	200	-50	-50	-150	130/400	-2/-6	-0.3	-100/-10	80	SOT-23
Part Number	Configuration	Type	PD (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		fT (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
2SA1020	Single	PNP	900	-50	-50	-2000	70 / 240	-500 / -2	-0.5	-1000 / -50	100	TO-92MOD
2SA1036	Single	PNP	200	-40	-32	-500	82/390	-10/-3	-0.4	-100/-10	200	SOT-23
2SA1037	Single	PNP	200	-60	-50	-150	120/560	-1/-6	-0.5	-50/-5.0	140	SOT-23
2SA1048	Single	PNP	200	-50	-50	-150	70/400	-2/-6	-0.3	-100/-10	80	TO-92S
2SA1081	Single	PNP	400	-90	-90	-100	250/800	-2/-12	-0.2	-10/-1	90	TO-92
2SA1082	Single	PNP	400	-120	-120	-100	250/800	-2/-12	-0.2	-10/-1	90	TO-92
2SA1083	Single	PNP	400	-60	-60	-100	250/800	-2/-12	-0.2	-10/-1	90	TO-92
2SA1084	Single	PNP	400	-90	-90	-100	250/800	-2/-12	-0.2	-10/-1	90	TO-92
2SA1162	Single	PNP	150	-50	-50	-150	70/400	-2/-6	-0.3	-100/-10	80	SOT-23
2SA1179	Single	PNP	200	-55	-50	-150	200/400	-1/-6	-0.5	-50/-5	180	SOT-23
2SA1235A	Single	PNP	200	-60	-50	-200	150/500	-1/-6	-0.3	-100/-10	200	SOT-23
2SA1298	Single	PNP	200	-35	-30	-800	100/320	-100/-1	-0.8	-500/-20	120	SOT-23
2SA1300	Single	PNP	750	-20	-10	-2000	140/600	-500/-1	-0.82	-2000/-100	140	TO-92
2SA1318	Single	PNP	500	-60	-50	-200	100/560	-1/-6	-0.3	-100/-10	200	TO-92
2SA1576A	Single	PNP	200	-60	-50	-150	120/560	-1/-6	-0.5	-50/-5	140	SOT-323
2SA1577	Single	PNP	200	-40	-32	-500	82/390	-10/-3	-0.4	-100/-10	200	SOT-323
2SA1579	Single	PNP	100	-120	-120	-50	180/560	-2/-6	-0.5	-10/-1	140	SOT-323
2SA1586	Single	PNP	100	-50	-50	-150	70/400	-2/-6	-0.3	100/10	80	SOT-323
2SA1611	Single	PNP	150	-60	-50	-100	90/600	-1/-6	-0.3	-100/-10	180	SOT-323
2SA1774	Single	PNP	150	-60	-50	-150	120/560	-1/-3	-0.5	-50/-5	140	SOT-523
Part Number	Configuration	Type	PD (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		fT (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
2SA1832	Single	PNP	100	-50	-50	-150	120/400	-2/-6	-0.3	-100/-10	80	SOT-523
2SA1980	Single	PNP	625	-50	-50	-150	70/700	-2/-6	-0.3	-100/-10	80	TO-92
2SA1981	Single	PNP	625	-35	-30	-800	100/320	-100/-1	-0.5	-500/-20	120	TO-92
2SA2018F	Single	PNP	150	-15	-12	-500	270/680	-10/-2	-0.25	-200/-10	260	SOT-523
2SA562	Single	PNP	500	-35	-30	-500	70/240	-100/-1	-0.25	-100/-10	200	TO-92
2SA608	Single	PNP	500	-40	-30	-100	60/560	-1/-6	-0.5	50/5	180	TO-92
2SA608N	Single	PNP	500	-60	-50	-150	160/560	-1/-6	-0.3	-100/-10	150	TO-92
2SA673	Single	PNP	400	-35	-35	-500	60/320	-10/-3	-0.6	-150/-15	-	TO-92
2SA673A	Single	PNP	400	-50	-50	-500	60/320	-10/-3	-0.6	-150/-15	-	TO-92

2SA684	Single	PNP	750	-60	-50	-1000	85/340	-500/-10	-0.4	-500/-50	200	TO-92L
2SA719	Single	PNP	625	-30	-25	-500	85/340	-150/-10	-0.6	-300/-30	200	TO-92
2SA720	Single	PNP	625	-60	-50	-500	85/340	-150/-10	-0.6	-300/-30	200	TO-92
2SA727	Single	PNP	1200	-40	-30	-3000	160/320	-1000/-2	-0.5	-2000/-200	80	TSOP-6
2SA733	Single	PNP	200	-60	-50	-150	120/475	-1/-6	-0.3	-100/-10	50	SOT-23
2SA812K	Single	PNP	200	-60	-50	-100	90/600	-1/-6.0	-0.3	100/10	180	SOT-23
2SA844	Single	PNP	300	-55	-55	-100	160/800	-2/-12	-0.5	-10/-1	200	TO-92
2SA950	Single	PNP	600	-35	-30	-800	100/320	-100/-1	-0.7	-500/-20	120	TO-92
2SA965TM	Single	PNP	900	-120	-120	-800	80/240	-100/-5	-1	-500/-50	120	TO-92MOD
2SB1068	Single	PNP	625	-20	-16	-2000	135/650	-100/-2	-0.5	-1500/-75	100	TO-92
2SB1116	Single	PNP	350	-60	-50	-1	135/600	100/2	-0.3	1/50	70	SOT-23

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T(MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
2SB1116A	Single	PNP	750	-80	-60	-1000	135/600	-100/-2	-0.3	-1000/-50	70	TO-92
2SB1197	Single	PNP	200	-40	-32	-800	82/390	-100/-3	-0.5	-500/-50	50	SOT-23
2SB1197K	Single	PNP	200	-40	-32	-800	120/390	-100/-3	-0.5	-500/-50	200	SOT-23
2SB1218A	Single	PNP	150	-45	-45	-100	160/460	-2/-10	-0.5	-100/-10	80	SOT-323
2SB1322A	Single	PNP	625	-60	-50	-1000	85/340	-500/-10	-0.4	-500/-50	200	TO-92
2SB561	Single	PNP	500	-25	-20	-700	85/240	-150/-1	-0.5	-500/-50	350	TO-92
2SB624	Single	PNP	200	-30	-25	-700	110/400	-100/-1	-0.6	-700/-70	160	SOT-23
2SB647A	Single	PNP	900	-120	-100	-1000	60/200	-150/-5	-1	-500/-50	140	TO-92MOD
2SB709A	Single	PNP	200	-45	-45	-100	160/460	-2/-10	-0.5	-100/-10	60	SOT-23
2SB764L	Single	PNP	900	-600	-500	-1000	60/320	-50/-2	-0.7	-500/-50	150	TO-92L
2SC1008	Single	NPN	800	80	60	700	40/400	50/2	0.4	500/50	30	TO-92
2SC1213	Single	NPN	400	35	35	500	60/320	10/3	0.6	150/15	-	TO-92
2SC1213A	Single	NPN	400	50	50	500	60/320	10/3	0.6	150/15	-	TO-92
2SC1318	Single	NPN	625	60	50	500	85/340	150/10	0.6	300/30	200	TO-92
2SC1318A	Single	NPN	750	80	70	500	85/340	150/10	0.6	300/30	120	TO-92
2SC1383L	Single	NPN	1000	30	25	1000	85/340	500/10	0.4	500/50	200	TO-92L
2SC1384L	Single	NPN	1000	60	50	1000	85/340	500/10	0.4	500/50	200	TO-92L
2SC1623K	Single	NPN	200	60	50	100	90/600	1/6	0.3	100/10	250	SOT-23
2SC1654	Single	NPN	150	180	160	50	90/400	15/3	0.3	50/5	120	SOT-23
2SC1674	Single	NPN	250	30	20	20	40/180	1/6	0.3	10/1	400	TO-92

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T(MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
2SC1675	Single	NPN	625	50	30	50	40/240	1/6	0.3	10/1	150	TO-92
2SC1740S	Single	NPN	300	60	50	150	120/560	1/9	0.4	500/50	100	TO-92S
2SC1923	Single	NPN	100	40	30	20	40/200	1/6	0	-	550	TO-92
2SC1959	Single	NPN	500	35	30	500	70/400	100/1	0.25	100/10	300	TO-92
2SC2001	Single	NPN	600	30	25	700	90/400	100/1	0.6	700/70	50	TO-92
2SC2120	Single	NPN	600	35	30	800	100/320	100/1	0.5	500/20	100	TO-92
2SC2216	Single	NPN	300	50	45	50	40/140	12.5/12.5	0.2	15/1.5	300	TO-92
2SC2229	Single	NPN	800	200	150	50	70/240	10/5	0.5	10/1	80	TO-92MOD
2SC2235TM	Single	NPN	900	120	120	800	80/240	100/5	1	500/50	120	TO-92MOD
2SC2411	Single	NPN	200	40	32	500	82/390	100/3	0.4	500/50	250	SOT-23
2SC2412	Single	NPN	200	60	50	150	120/560	1/6	0.4	50/5	160	SOT-23
2SC2551	Single	NPN	400	300	300	100	30/150	20/10	0.5	20/2	80	TO-92
2SC2655	Single	NPN	900	50	50	2000	70/240	500/2	0.5	1000/50	100	TO-92MOD
2SC2655L	Single	NPN	900	50	50	2000	70/240	500/2	0.5	1000/50	100	TO-92L
2SC2712	Single	NPN	150	60	50	150	70/700	2/6	0.25	100/10	80	SOT-23
2SC2714	Single	NPN	100	40	30	20	40/200	1/6	0	-/-	550	SOT-23
2SC2715	Single	NPN	350	35	30	50	40/240	2/12	0.4	10/1	100	SOT-23
2SC2717	Single	NPN	300	30	25	50	40/240	12.5/12.5	0.2	15/1.5	300	TO-92
2SC2859	Single	NPN	150	35	30	500	70/400	100/1	0.25	100/10	300	SOT-23
2SC2878A	Single	NPN	400	50	20	300	200/700	4/2	0.3	30/3	30	TO-92

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T(MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
2SC3052	Single	NPN	150	50	50	200	150/800	1/6	0.3	100/10	180	SOT-23
2SC3199	Single	NPN	400	50	50	150	70/400	2/6	0.25	100/10	80	TO-92S
2SC3279	Single	NPN	750	30	10	2000	140/600	500/1	0.82	2000/100	100	TO-92
2SC3415	Single	NPN	500	300	300	100	39/180	10/10	2	50/5	50	TO-92
2SC380TM	Single	NPN	300	35	30	50	40/240	2/12	0.4	10/1	100	TO-92
2SC388	Single	NPN	300	30	25	50	20/200	12.5/12.5	0.2	15/1.5	300	TO-92
2SC4081F	Single	NPN	200	60	50	150	120/560	1/6	0.4	50/5	180	SOT-323
2SC4097	Single	NPN	200	40	32	500	82/390	10/3	0.4	500/50	250	SOT-323
2SC4098	Single	NPN	200	40	25	50	56/270	1/6	0.3	10/1	150	SOT-323

2SC4115S	Single	NPN	300	40	20	3000	120/560	100/2	0.5	2000/100	290	TO-92S
2SC4116	Single	NPN	100	60	50	150	70/700	2/6	0.25	100/10	80	SOT-323
2SC4177	Single	NPN	150	60	50	100	90/600	1/6	0.3	100/10	250	SOT-323
2SC4215	Single	NPN	100	40	30	20	40/200	1/6	0	-	260	SOT-323
2SC4226	Single	NPN	150	20	12	100	40/250	7/3	0	-	3000	SOT-323
2SC4617	Single	NPN	150	60	50	150	120/560	1/6	0.4	50/5	180	SOT-523
2SC4618	Single	NPN	150	40	25	50	56/270	1/6	0.3	10/1	150	SOT-523
2SC4738	Single	NPN	100	60	50	150	120/700	2/6	0.25	100/10	80	SOT-523
2SC5343	Single	NPN	200	60	50	150	70/700	2/6	0.25	100/10	80	SOT-23
2SC5343T①	Single	NPN	625	60	50	150	70/700	2/6	0.25	100/10	80	TO-92
2SC5344	Single	NPN	200	35	30	800	100/320	100/1	0.5	500/50	120	SOT-23

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
2SC5345	Single	NPN	300	30	20	20	40/240	1/6	0.3	10/1	550	SOT-23
2SC5345T①	Single	NPN	625	30	20	20	40/240	1/6	0.3	10/1	550	TO-92
2SC536①	Single	NPN	400	40	30	100	60/960	1/6	0.5	50/5	100	TO-92
2SC536N①	Single	NPN	625	60	50	150	160/560	1/6	0.3	100/10	200	TO-92
2SC5585	Single	NPN	150	15	12	500	270/680	10/2	0.25	200/10	320	SOT-523
2SC5658-C	Single	NPN	100	60	50	150	120/560	1/6	0.4	50/5	180	SOT-723
2SC6517	Single	NPN	225	350	350	500	30/200	30/10	1	50/5	200	SOT-23
2SD1468	Single	NPN	625	30	15	1000	120/560	100/3	0.4	500/50	50	TO-92
2SD1468S	Single	NPN	300	30	15	1000	120/560	1/9	0.4	500/50	50	TO-92S
2SD1513①	Single	NPN	625	20	16	2000	135/650	100/2	0.4	1000/10	100	TO-92
2SD1616A	Single	NPN	750	120	60	1000	135/600	100/2	0.3	1000/50	100	TO-92
2SD1781	Single	NPN	200	40	32	800	120/390	100/3	0.4	500/50	150	SOT-23
2SD1819A	Single	NPN	150	60	50	100	160/460	2/10	0.3	100/10	150	SOT-323
2SD2045	Dual	NPN	350	40	30	1500	180/500	100/2	0.375	750/15	-	SOT-26
-	-	PNP	350	-40	-30	-1500	180/500	-100/-2	-0.375	-750/-15	-	-
2SD2142	Single	NPN	200	40	32	300	5000/-	100/3	1.4	200/0.2	200	SOT-23
2SD596	Single	NPN	200	30	25	700	200/320	100/1	0.6	700/70	170	SOT-23
2SD601A	Single	NPN	200	60	50	100	160/460	2/10	0.3	100/10	150	SOT-23
2SD602	Single	NPN	200	30	25	500	85/340	150/10	0.6	300/30	200	SOT-23
2SD602A	Single	NPN	200	60	50	500	85/340	150/10	0.6	300/30	200	SOT-23
2SD667A	Single	NPN	900	120	100	1000	60/320	150/5	1	500/50	140	TO-92MOD

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
2SD879①	Single	NPN	750	30	10	3000	140/-	3000/2	0.4	3000/60	200	TO-92
3DD13001	Single	NPN	750	600	400	200	17/26	20/20	0.5	50/10	8	TO-92
3DD13002	Single	NPN	800	600	500	800	20/30	200/10	0.5	200/40	5	TO-92
3DD13003B	Single	NPN	900	700	400	1500	20/30	400/10	3	1500/500	4	TO-92
8050SST	Single	NPN	1000	40	25	1500	85/300	100/1	0.5	800/80	100	TO-92
8550SST	Single	PNP	1000	-40	-25	-1500	85/300	-100/-1	-0.5	-800/-80	100	TO-92
A1015	Single	PNP	400	-50	-50	-150	70/400	-2/-6	-0.3	-100/-10	80	TO-92
A1020	Single	PNP	625	-50	-50	-2000	70 / 240	-500 / -2	-0.5	-1000 / -50	100	TO-92
A733	Single	PNP	250	-60	-50	-100	90/600	-1/-6	-0.3	-100/-10	100	TO-92
A92	Single	PNP	625	-310	-305	-200	80/250	-10/-10	-0.2	-20/-2	50	TO-92
A94	Single	PNP	625	-400	-400	-200	80/300	-10/-10	-0.2	-10/-1	50	TO-92
B772S	Single	PNP	625	-40	-30	-3000	60/400	-1000/-2	-0.5	-2000/-200	50	TO-92
BC184	Single	NPN	350	45	30	100	240/900	2/5	0.6	100/5	150	TO-92
BC212	Single	PNP	350	-60	-50	-100	140/600	-2/-5	-0.6	-100/-5	200	TO-92
BC237①	Single	NPN	350	50	45	100	120/800	2/5	0.6	100/5	100	TO-92
BC238①	Single	NPN	350	30	25	100	120/800	2/5	0.8	100/5	120	TO-92
BC307①	Single	PNP	500	-50	-45	-100	120/800	-2/-5	-0.6	-100/-5	130	TO-92
BC308①	Single	PNP	500	-30	-25	-100	120/800	-2/-5	-0.6	-100/-5	130	TO-92
BC327	Single	PNP	625	-50	-45	-800	100/630	-100/-1	-0.7	-500/-50	260	TO-92
BC328	Single	PNP	625	-30	-25	-800	100/630	-100/-1	-0.7	-500/-50	260	TO-92

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
BC337	Single	NPN	625	50	45	800	100/630	100/1	0.7	500/50	210	TO-92
BC338	Single	NPN	625	30	25	800	100/630	100/1	0.7	500/50	210	TO-92
BC368①	Single	NPN	625	25	20	1000	85/375	0.5/1	0.5	1000/100	65	TO-92
BC546	Single	NPN	625	80	65	100	110/450	2/5	0.3	100/5	150	TO-92
BC547	Single	NPN	625	50	45	100	110/800	2/5	0.3	100/5	150	TO-92
BC548	Single	NPN	625	30	30	100	110/800	2/5	0.3	100/5	150	TO-92

BC556	Single	PNP	625	-80	-65	-100	120/500	-2/-5	-0.65	-100/-5	150	TO-92
BC557	Single	PNP	625	-50	-45	-100	120/800	-2/-5	-0.65	-100/-5	150	TO-92
BC558	Single	PNP	625	-30	-30	-100	120/800	-2/-5	-0.65	-100/-5	150	TO-92
BC635	Single	NPN	830	45	45	1000	40/250	150/2	0.5	500/50	100	TO-92
BC636	Single	PNP	830	-45	-45	-1000	63/250	-150/-2	-0.5	-500/-50	100	TO-92
BC637	Single	NPN	830	60	60	1000	63/250	150/2	0.5	500/50	100	TO-92
BC638	Single	PNP	830	-60	-60	-1000	100/250	-150/-2	-0.5	-500/-50	100	TO-92
BC639	Single	NPN	830	100	80	1000	63/250	150/2	0.5	500/50	100	TO-92
BC640	Single	PNP	830	-100	-80	-1000	100/250	-150/-2	-0.5	-500/-50	100	TO-92
BC727	Single	PNP	1200	-40	-30	-3000	160/320	-1000/-2	-0.5	-2000/-200	80	SOT-26
BC807-16	Single	PNP	300	-50	-45	-500	100/250	-100/-1	-0.7	-500/-50	100	SOT-23
BC807-16W	Single	PNP	200	-50	-45	-500	100/250	-100/-1	-0.7	-500/-50	80	SOT-323
BC807-25	Single	PNP	300	-50	-45	-500	160/400	-100/-1	-0.7	-500/-50	100	SOT-23
BC807-25W	Single	PNP	200	-50	-45	-500	160/400	-100/-1	-0.7	-500/-50	80	SOT-323

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
BC807-40	Single	PNP	300	-50	-45	-500	250/600	-100/-1	-0.7	-500/-50	100	SOT-23
BC807-40W	Single	PNP	200	-50	-45	-500	250/600	-100/-1	-0.7	-500/-50	80	SOT-323
BC808	Single	PNP	300	-30	-25	-800	100/630	-100/-1	-0.7	-500/-50	100	SOT-23
BC817-16	Single	NPN	300	50	45	500	100/250	100/1	0.7	500/50	100	SOT-23
BC817-16W	Single	NPN	300	50	45	500	100/250	100/1	0.7	500/50	100	SOT-323
BC817-25	Single	NPN	300	50	45	500	160/400	100/1	0.7	500/50	100	SOT-23
BC817-25W	Single	NPN	300	50	45	500	160/400	100/1	0.7	500/50	100	SOT-323
BC817-40	Single	NPN	300	50	45	500	250/600	100/1	0.7	500/50	100	SOT-23
BC817-40W	Single	NPN	300	50	45	500	250/600	100/1	0.7	500/50	100	SOT-323
BC846A	Single	NPN	225	80	65	100	110/220	2/5	0.5	100/5	100	SOT-23
BC846AS	Single	NPN	225	80	65	100	110/220	2/5	0.6	100/5	100	SOT-23
BC846AW	Single	NPN	150	80	65	100	110/220	2/5	0.6	100/5	100	SOT-323
BC846B	Single	NPN	225	80	65	100	200/450	2/5	0.5	100/5	100	SOT-23
BC846BS	Single	NPN	225	80	65	100	200/450	2/5	0.6	100/5	100	SOT-23
BC846BW	Single	NPN	150	80	65	100	200/450	2/5	0.6	100/5	100	SOT-323
BC846S	Dual	NPN	200	80	65	100	110	2/5	0.1	10/0.5	100	SOT-363
BC847A	Single	NPN	225	50	45	100	110/220	2/5	0.5	100/5	100	SOT-23
BC847AS	Single	NPN	225	50	45	100	110/220	2/5	0.6	100/5	100	SOT-23
BC847AW	Single	NPN	150	50	45	100	110/220	2/5	0.6	100/5	100	SOT-323
BC847B	Single	NPN	225	50	45	100	200/450	2/5	0.5	100/5	100	SOT-23

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
BC847BS	Single	NPN	225	50	45	100	200/450	2/5	0.6	100/5	100	SOT-23
BC847BV	Dual	NPN	150	50	45	100	200/450	2/5	0.3	100/5	100	SOT-563
BC847BW	Single	NPN	150	50	45	100	200/450	2/5	0.6	100/5	100	SOT-323
BC847C	Single	NPN	225	50	45	100	420/800	2/5	0.5	100/5	100	SOT-23
BC847CS	Single	NPN	225	50	45	100	420/800	2/5	0.6	100/5	100	SOT-23
BC847CW	Single	NPN	150	50	45	100	420/800	2/5	0.6	100/5	100	SOT-323
BC847PN	Dual	NPN	200	50	45	100	200/450	2/5	0.6	100/5	100	SOT-363
-	-	PNP	200	-50	-45	-100	220/475	-2/-5	-0.65	-100/-5	100	-
BC847PNW	Dual	NPN	250	50	45	100	200/475	2/5	0.6	100/5	100	SOT-363
-	-	PNP	250	-50	-45	-100	200/475	-2/-5	-0.65	-100/-5	100	-
BC847S	Dual	NPN	300	50	45	200	110/630	2/5	0.25	10/0.5	200	SOT-363
BC847T	Single	NPN	150	50	45	100	110/800	2/5	0.6	100/5	100	SOT-523
BC848A	Single	NPN	225	30	30	100	110/220	2/5	0.5	100/5	100	SOT-23
BC848AS	Single	NPN	225	30	30	100	110/220	2/5	0.6	100/5	100	SOT-23
BC848AW	Single	NPN	150	30	30	100	110/220	2/5	0.6	100/5	100	SOT-323
BC848B	Single	NPN	225	30	30	100	200/450	2/5	0.5	100/5	100	SOT-23
BC848BS	Single	NPN	225	30	30	100	200/450	2/5	0.6	100/5	100	SOT-23
BC848BW	Single	NPN	150	30	30	100	200/450	2/5	0.6	100/5	100	SOT-323
BC848C	Single	NPN	225	30	30	100	420/800	2/5	0.5	100/5	100	SOT-23
BC848CS	Single	NPN	225	30	30	100	420/800	2/5	0.6	100/5	100	SOT-23
BC848CW	Single	NPN	150	30	30	100	420/800	2/5	0.6	100/5	100	SOT-323
BC856A	Single	PNP	225	-80	-65	-100	125/250	-2/-5	-0.5	-100/-5	100	SOT-23

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
BC856AW	Single	PNP	150	-80	-65	-100	125/250	-2/-5	-0.65	-100/-5	100	SOT-323
BC856B	Single	PNP	225	-80	-65	-100	220/475	-2/-5	-0.5	-100/-5	100	SOT-23
BC856BW	Single	PNP	150	-80	-65	-100	220/475	-2/-5	-0.65	-100/-5	100	SOT-323

BC857A	Single	PNP	225	-50	-45	-100	125/250	-2/-5	-0.5	-100/-5	100	SOT-23
BC857AW	Single	PNP	150	-50	-45	-100	125/250	-2/-5	-0.65	-100/-5	100	SOT-323
BC857B	Single	PNP	225	-50	-45	-100	220/475	-2/-5	-0.5	-100/-5	100	SOT-23
BC857BV	Dual	PNP	150	-50	-45	-100	220/475	-2/-5	-0.4	-100/-5	100	SOT-563
BC857BW	Single	PNP	150	-50	-45	-100	220/475	-2/-5	-0.65	-100/-5	100	SOT-323
BC857C	Single	PNP	225	-50	-45	-100	420/800	-2/-5	-0.5	-100/-5	100	SOT-23
BC857CW	Single	PNP	150	-50	-45	-100	420/800	-2/-5	-0.65	-100/-5	100	SOT-323
BC857S	Dual	PNP	300	-50	-45	-100	125/630	-2/-5	-0.3	-10/-0.5	200	SOT-363
BC858A	Single	PNP	225	-30	-30	-100	125/250	-2/-5	-0.5	-100/-5	100	SOT-23
BC858AW	Single	PNP	150	-30	-30	-100	125/250	-2/-5	-0.65	-100/-5	100	SOT-323
BC858B	Single	PNP	225	-30	-30	-100	220/475	-2/-5	-0.5	-100/-5	100	SOT-23
BC858BW	Single	PNP	150	-30	-30	-100	220/475	-2/-5	-0.65	-100/-5	100	SOT-323
BC858C	Single	PNP	225	-30	-30	-100	420/800	-2/-5	-0.5	-100/-5	100	SOT-23
BC858CW	Single	PNP	150	-30	-30	-100	420/800	-2/-5	-0.65	-100/-5	100	SOT-323
BCV27	Single	NPN	350	40	30	500	20K/-	100/5	1	0.1/100	170	SOT-23
BCW61B	Single	PNP	250	-32	-32	-100	180/310	-2/-5	-0.55	-50/-1.25	100	SOT-23
BCW61C	Single	PNP	250	-32	-32	-100	250/460	-2/-5	-0.55	-50/-1.25	100	SOT-23

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
BCW66F	Single	NPN	200	75	45	800	100/250	100/1	0.3	100/10	100	SOT-23
BCW66G	Single	NPN	200	75	45	800	160/400	100/1	0.3	100/10	100	SOT-23
BCW66H	Single	NPN	200	75	45	800	250/630	100/1	0.3	100/10	100	SOT-23
BCW68	Single	PNP	330	-60	-45	-800	100/630	-100/-1	-0.3	-100/-10	200	SOT-23
BCX19	Single	NPN	225	50	45	500	100/600	100/1	0.62	500/50	-	SOT-23
BCX70J	Single	NPN	250	45	45	200	250/460	2/5	0.55	50/1.25	100	SOT-23
BCX70K	Single	NPN	250	45	45	200	380/630	2/5	0.55	50/1.25	100	SOT-23
BF370①	Single	NPN	500	40	15	100	40/200	10/1	0.2	15/1.5	500	TO-92
BF420①	Single	NPN	625	300	300	100	50/-	25/20	0.6	30/5	60	TO-92
BF421①	Single	PNP	830	-300	-300	-100	50/-	-25/-20	-0.6	-30/-5	60	TO-92
BF422①	Single	NPN	625	250	250	100	50/-	25/20	0.6	30/5	60	TO-92
BF423①	Single	PNP	830	-250	-250	-100	50/-	-25/-20	-0.6	-30/-5	60	TO-92
BFS20	Single	NPN	250	30	20	25	40/120	7/10	0.3	10/1.0	275	SOT-23
C1815	Single	NPN	200	60	50	150	130/400	2/6	0.25	100/10	80	SOT-23
C1815T	Single	NPN	400	60	50	150	70/700	2/6	0.25	100/10	80	TO-92
C945	Single	NPN	200	60	50	150	130/400	1/6	0.3	100/10	150	SOT-23
C945T	Single	NPN	400	60	50	150	70/700	1/6	0.3	100/10	200	TO-92
D882S	Single	NPN	625	40	30	3000	60/400	1000/2	0.5	2000/200	50	TO-92
D965	Single	NPN	750	42	22	5000	340/2000	500/2	0.35	3000/100	150	TO-92
EMH3	Dual	NPN	150	50	50	100	100/600	1/5	0.3	5/0.25	250	SOT-563

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
EMT1	Dual	PNP	150	-60	-50	-150	120/560	-1/-6	-0.5	-50/-5	140	SOT-563
EMX1	Dual	NPN	150	60	50	150	120/560	1/6	0.4	50/5	180	SOT-563
KSA539	Single	PNP	400	-60	-45	-200	40/240	-50/-1	-0.5	-150/-15	-	TO-92
KSA708	Single	PNP	800	-80	-60	-700	40/240	-50/-2	-0.7	-500/-50	50	TO-92L
KSA928ATL	Single	PNP	1000	-30	-30	-2000	100/320	-500/-2	-2	-1500/-30	120	TO-92L
KSC2328AL	Single	NPN	750	30	30	2000	100/320	500/2	2	1500/30	120	TO-92L
KSC2383L	Single	NPN	750	160	160	1000	60/320	200/5	1	500/50	20	TO-92L
KSC815	Single	NPN	400	60	45	200	40/400	50/1	0.4	150/15	100	TO-92
KSD471A	Single	NPN	800	40	30	1000	70/400	100/1	0.5	1000/100	130	TO-92
KTA1023	Single	PNP	900	-120	-120	-800	80/240	-100/-5	-1	-500/-50	120	TO-92L
KTA1266	Single	PNP	625	-50	-50	-150	70/400	-2/-6	-0.3	-100/-10	80	TO-92
KTA1270	Single	PNP	500	-35	-30	-500	70/240	-100/-1	-0.25	-100/-10	200	TO-92
KTA1271	Single	PNP	625	-35	-30	-800	100/320	-100/-1	-0.7	-500/-20	120	TO-92
KTA1504	Single	PNP	150	-50	-50	-150	70/400	-2/-6	-0.3	-100/-10	80	SOT-23
KTA1505	Single	PNP	150	-35	-30	-500	70/400	-100/-1	-0.25	-100/-10	200	SOT-23
KTA2014	Single	PNP	100	-50	-50	-150	70/400	-2/-6	-0.3	-100/-10	80	SOT-323
KTC1027	Single	NPN	750	120	120	800	80/240	100/5	1	500/50	120	TO-92L
KTC3197	Single	NPN	625	30	25	50	20/200	12.5/12.5	0.2	15/1.5	300	TO-92
KTC3198	Single	NPN	625	60	50	150	70/400	2/6	0.25	100/10	80	TO-92
KTC3203	Single	NPN	625	35	30	800	100/320	100/1	0.5	500/20	120	TO-92

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCEO (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
KTC3205	Single	NPN	1000	30	30	2000	100/320	500/2	2	1500/30	120	TO-92L
KTC3265	Single	NPN	200	35	30	800	100/320	100/1	0.5	500/20	120	SOT-23

KTC3875	Single	NPN	150	60	50	150	120/400	2/6	0.25	100/10	80	SOT-23
KTC3876	Single	NPN	200	35	30	500	70/400	100/1	0.25	100/10	300	SOT-23
KTC3879	Single	NPN	150	35	30	50	40/240	2/12	0.4	10/1	100	SOT-23
M28S	Single	NPN	200	40	20	1000	300/1000	100/1	0.55	600/20	100	SOT-23
M28ST	Single	NPN	1	40	20	1000	290/1000	1/100	0.55	600/20	100	TO-92
M8050	Single	NPN	200	40	25	800	80/300	100/1	0.5	800/80	150	SOT-23
M8050T	Single	NPN	625	40	25	800	80/400	100/1	0.5	800/80	150	TO-92
M8550	Single	PNP	200	-40	-25	-800	80/300	-100/-1	-0.5	-800/-80	150	SOT-23
M8550T	Single	PNP	625	-40	-25	-800	80/400	-100/-1	-0.5	-800/-80	80	TO-92
MMBT1616A-C	Single	NPN	350	120	60	1000	135 / 600	100 / 2	0.3	1000 / 50	100	SOT-23
MMBT2222A	Single	NPN	225	75	40	600	100/300	150/10	0.3	150/15	300	SOT-23
MMBT2222AM-C	Single	NPN	100	75	40	500	100/300	150/10	1	500/50	300	SOT-723
MMBT2222AT	Single	NPN	150	40	75	600	75/375	10/10	0.3	150/15	250	SOT-523
MMBT2222AW	Single	NPN	200	75	40	600	100/300	150/10	1	500/50	300	SOT-323
MMBT2222FW	Single	NPN	150	75	40	600	100/300	150/10	1	500/50	300	SOT-523
MMBT2907①	Single	PNP	300	-60	-40	-600	100/300	-150/-10	-0.6	-500/-50	200	SOT-23
MMBT2907A	Single	PNP	300	-60	-60	-600	100/300	-150/-10	-0.6	-500/-50	200	SOT-23
MMBT2907AW	Single	PNP	200	-60	-60	-600	100/300	-150/-10	-1.6	-500/-50	200	SOT-323

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
MMBT2907FW	Single	PNP	150	-60	-60	-600	100/300	-150/-10	-1.6	-500/-50	140	SOT-523
MMBT3904-C	Single	NPN	225	60	40	200	100/300	10/1	0.3	50/5	300	SOT-23
MMBT3904FW	Single	NPN	200	60	40	200	100/300	10/1	0.3	50/5	300	SOT-523
MMBT3904M-C	Single	NPN	100	60	40	200	100/300	10/1	0.3	50/5	300	SOT-723
MMBT3904T	Single	NPN	200	60	40	200	100/300	10/1	0.3	50/5	200	SOT-523
MMBT3904W	Single	NPN	200	60	40	200	100/300	10/1	0.3	50/5	300	SOT-323
MMBT3906-C	Single	PNP	225	-40	-40	-200	100/300	-10/-1	-0.4	-50/-5	250	SOT-23
MMBT3906FW	Single	PNP	200	-40	-40	-200	100/300	-10/-1	-0.4	-50/-5	250	SOT-523
MMBT3906T	Single	PNP	200	-40	-40	-200	100/300	-10/-1	-0.4	-50/-5	250	SOT-523
MMBT3906W	Single	PNP	200	-40	-40	-200	100/300	-10/-1	-0.4	-50/-5	250	SOT-323
MMBT4401	Single	NPN	300	60	40	600	100/300	150/1	0.4	150/15	250	SOT-23
MMBT4401W	Single	NPN	200	60	40	600	100/300	150/1	0.4	150/15	250	SOT-323
MMBT4403	Single	PNP	300	-40	-40	-600	100/300	-150/-2	-0.4	-150/-15	200	SOT-23
MMBT4403W	Single	PNP	200	-40	-40	-600	100/300	-150/-2	-0.75	-500/-50	200	SOT-323
MMBT491	Single	NPN	500	80	60	1000	100/300	500/5	0.5	1000/100	150	SOT-23
MMBT493	Single	NPN	250	120	100	1000	100/300	250/10	0.6	1000/100	150	SOT-23
MMBT5401	Single	PNP	300	-160	-150	-600	100/300	-10/-5	-0.5	-50/-5	100	SOT-23
MMBT5401W	Single	PNP	200	-160	-150	-600	60/240	-10/-5	-0.5	50/5	100	SOT-323
MMBT5551	Single	NPN	300	180	160	600	100/300	10/5	0.5	50/5	80	SOT-23
MMBT5551W	Single	NPN	200	180	160	600	80/250	10/5	0.15	10/1	100	SOT-323

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
MMBT589	Single	PNP	310	-50	-30	-1000	100/300	-500/-2	-0.65	-2000/-200	100	SOT-23
MMBT591	Single	PNP	250	-80	-60	-1000	100/300	-500/-5	-0.6	-1000/-100	150	SOT-23
MMBT593	Single	PNP	250	-120	-100	-1000	100/300	-500/-5	-0.3	-500/-50	50	SOT-23
MMBT619	Single	NPN	350	50	50	2	100/300	1/9	20	200/220	100	SOT-23
MMBT720	Single	PNP	350	-40	-40	-1500	60	-1500/-2	-0.33	-1500/-100	150	SOT-23
MMBTA05	Single	NPN	300	60	60	500	100/400	10/1	0.25	100/10	100	SOT-23
MMBTA06	Single	NPN	300	80	80	500	100/400	10/1	0.25	100/10	100	SOT-23
MMBTA13	Single	NPN	300	30	30	300	10000/-	100/5	1.5	100/0.1	125	SOT-23
MMBTA14	Single	NPN	300	30	30	300	20000/-	100/5	1.5	100/0.1	125	SOT-23
MMBTA28	Single	NPN	200	80	80	500	10	10/5	1.2	10/0.01	125	SOT-23
MMBTA42	Single	NPN	350	300	300	300	100/200	10/10	0.2	20/2	50	SOT-23
MMBTA42W	Single	NPN	200	300	300	300	100/200	10/10	0.2	20/2	50	SOT-323
MMBTA43	Single	NPN	350	200	200	500	40/-	10/10	0.5	20/2	50	SOT-23
MMBTA44	Single	NPN	350	400	400	200	50/200	10/10	0.5	10/1	50	SOT-23
MMBTA55	Single	PNP	225	-60	-60	-500	100	-10/-1	-0.25	-100/-10	50	SOT-23
MMBTA56	Single	PNP	225	-80	-80	-500	100/400	-10/-1	-0.25	-100/-10	50	SOT-23
MMBTA56W①	Single	PNP	200	-80	-80	-500	50/-	-100/-1	-0.25	100/10	50	SOT-323
MMBTA92	Single	PNP	300	-300	-300	-300	100/200	-10/-10	-0.2	-20/-2.0	50	SOT-23
MMBTA92W	Single	PNP	200	-310	-305	-300	100/200	-10/-10	-0.2	-20/-2	50	SOT-323
MMBTA94	Single	PNP	350	-400	-400	-100	80/300	-10/-10	-0.2	-10/-1	50	SOT-23

Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
MMBTH10	Single	NPN	225	30	25	50	60/-	4/10	0.5	4/0.4	650	SOT-23

MMDT2222A	Dual	NPN	150	75	40	600	100/300	150/10	1	500/50	300	SOT-363
MMDT2227	Dual	NPN	200	75	40	200	100/300	150/10	1	500/50	300	SOT-363
-	-	PNP	200	-60	-60	-200	100/300	-150/-10	-1.6	-500/-50	200	-
MMDT2907A	Dual	PNP	200	-60	-60	-600	100/300	-150/-10	-1.6	-500/-50	200	SOT-363
MMDT3904	Dual	NPN	200	60	40	200	100/300	10/1	0.3	50/5	300	SOT-363
MMDT3904V	Dual	NPN	200	60	40	200	100/300	10/1	0.3	50/5	300	SOT-563
MMDT3906	Dual	PNP	200	-40	-40	-200	100/300	-10/-1	-0.4	-50/-5	250	SOT-363
MMDT3946	Dual	NPN	200	60	40	200	100/300	10/1.0	0.3	50/5.0	300	SOT-363
-	-	PNP	200	-40	-40	-200	100/300	-10/-1.0	-0.4	-50/-5.0	250	-
MMDT4401	Dual	NPN	200	60	40	600	100/300	150/1	0.75	500/50	250	SOT-363
MMDT4403	Dual	PNP	200	-40	-40	-600	100/300	-150/-2	-0.75	-500/-50	200	SOT-363
MMDT4413	Dual	NPN	200	60	40	600	100/300	150/1	0.75	500/50	250	SOT-363
-	-	PNP	200	-40	-40	-600	100/300	-150/-2	-0.75	-500/-50	200	-
MMDT4944	Dual	NPN	200	60	50	150	120/400	2/6	0.25	100/10	80	SOT-353
MMDT5401	Dual	PNP	200	-160	-150	-200	60/240	-10/-5	-0.5	-50/-5	100	SOT-363
MMDT5451	Dual	NPN	200	180	160	200	80/250	10/5	0.2	50/5.0	100	SOT-363
-	-	PNP	200	-160	-150	-200	60/240	-10/-5	-0.5	-50/-5.0	100	-
MMDT5551①	Dual	NPN	200	180	160	200	80/250	10/5	0.15	10/1.0	100	SOT-363
MPS2222A	Single	NPN	625	75	40	600	100/300	150/10	0.6	500/50	300	TO-92
MPS2907A	Single	PNP	625	-60	-60	-600	100/300	-150/-10	-0.67	-500/-50	200	TO-92
MPS651	Single	NPN	625	80	60	2000	75/-	1000/2	0.5	2000/200	75	TO-92
MPS750	Single	PNP	625	-60	-40	-2000	75/400	-500/-2	-0.3	-1000/-100	75	TO-92
MPS751	Single	PNP	625	-80	-60	-2000	40/-	-2000/-2	-0.3	-1000/-100	75	TO-92
Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
MPSA05	Single	NPN	625	60	60	500	100/-	100/1	0.25	100/10	100	TO-92
MPSA06	Single	NPN	625	80	80	500	100/400	10/1	0.25	100/10	100	TO-92
MPSA13	Single	NPN	625	30	30	500	10000/-	100/5	1.5	100/0.1	125	TO-92
MPSA14	Single	NPN	625	30	30	500	20000/-	100/5	1.5	100/0.1	125	TO-92
MPSA17①	Single	NPN	300	0	40	100	200/800	5/10	0.25	10/1	80	TO-92
MPSA42	Single	NPN	625	310	305	200	80/250	10/10	0.2	20/2	50	TO-92
MPSA43①	Single	NPN	625	200	200	500	40/-	10/10	0.4	20/2	50	TO-92
MPSA44	Single	NPN	625	400	400	200	80/300	10/10	0.2	10/1	-	TO-92
MPSA55	Single	PNP	625	-60	-60	-500	100/-	-10/-1	-0.25	-100/-10	50	TO-92
MPSA56	Single	PNP	625	-80	-80	-500	100/-	-10/-1	-0.25	-100/-10	50	TO-92
MPSH10/11①	Single	NPN	350	30	25	50	60/200	4/10	0.5	4/0.4	650	TO-92
S8050	Single	NPN	300	40	25	500	120/350	50/1	0.6	500/50	150	SOT-23
S8050T	Single	NPN	625	40	25	500	85/400	50/1	0.6	500/50	150	TO-92
S8550	Single	PNP	300	-40	-25	-500	120/350	-50/-1	-0.6	-500/-50	150	SOT-23
S8550T	Single	PNP	625	-40	-25	-500	85/400	-50/-1	-0.6	-500/-50	150	TO-92
S9012	Single	PNP	300	-40	-25	-500	120/400	-50/-1	-0.6	-500/-50	150	SOT-23
S9012T	Single	PNP	625	-40	-25	-500	64/400	-1/-4	-0.6	-500/-50	150	TO-92
S9013	Single	NPN	300	40	25	500	120/350	50/1	0.6	500/50	150	SOT-23
S9013T	Single	NPN	625	40	25	500	64/400	50/1	0.6	500/50	150	TO-92
S9013W	Single	NPN	200	40	25	500	120/400	50/1	0.6	500/50	150	SOT-323
Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T (MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
S9014	Single	NPN	200	50	45	100	200/1000	1/5	0.3	100/5.0	150	SOT-23
S9014T	Single	NPN	400	50	45	100	60/1000	1/5.0	0.3	100/5	150	TO-92
S9014W	Single	NPN	200	50	45	100	200/1000	1/5	0.4	100/5	150	SOT-323
S9015	Single	PNP	200	-50	-45	-100	200/1000	-1/-5	-0.3	-100/-10	150	SOT-23
S9015T	Single	PNP	1	-50	-45	1	60/1000	-5/-1	-0.3	100/10	100	TO-92
S9018	Single	NPN	200	30	15	50	70/190	1/5	0.5	10/1.0	600	SOT-23
S9018T	Single	NPN	400	25	18	50	28/270	1/5.0	0.5	10/1	600	TO-92
S9018W	Single	NPN	200	30	15	50	70/190	1/5	0.5	10/1	600	SOT-323
SEMY1①	Dual	NPN	150	60	50	150	120/560	1/6	0.4	50/5	180	SOT-553
-	-	PNP	150	-60	-50	-150	120/560	-1/-6	-0.5	-50/-5	140	-
SEMZ8①	Dual	NPN	150	60	50	150	120/560	1/6	0.4	50/5	180	SOT-563
-	-	PNP	150	-15	-12	-500	270/680	-10/-2	-0.25	-200/-10	260	-
SS8050	Single	NPN	300	40	25	1500	120/400	100/1	0.5	800/80	100	SOT-23
SS8050T	Single	NPN	1000	40	25	1500	85/400	100/1.0	0.5	800/80	100	TO-92
SS8050W	Single	NPN	200	40	25	1500	120/350	50/1	0.5	500/50	100	SOT-323
SS8550	Single	PNP	300	-40	-25	-1500	120/350	-100/-1	-0.5	-800/-80	100	SOT-23
SS8550T	Single	PNP	1000	-40	-25	-1500	85/400	-100/-1.0	-0.5	-800/-80	100	TO-92
SS8550W	Single	PNP	200	-40	-25	-1500	120/350	-100/-1	-0.5	-800/-80	100	SOT-323
STB1277	Single	PNP	625	-30	-30	-2000	100/320	-500/-2	-0.8	-2000/-200	170	TO-92

UMT1N	Dual	PNP	150	-60	-50	-150	120/560	-1/-6	-0.5	-50/-5	140	SOT-363
UMX18N	Dual	NPN	150	15	12	500	270/680	10/2	0.25	200/10	320	SOT-363
UMX1N	Dual	NPN	150	60	50	150	120/560	1/6	0.4	5/50	180	SOT-363
Part Number	Configuration	Type	Pd (mW)	VCBO (V)	VCE0 (V)	IC (mA)	hFE		VCE(sat)		f T(MHz)	Package
							Min/Max	IC(mA)/VCE(V)	(V)	IC/IB(mA)		
UMX3N ⓘ	Dual	NPN	150	60	50	150	120/560	1/6	0.4	5/50	180	SOT-363
UMZ1N	Dual	NPN	150	60	50	150	120/560	1/6	0.4	50/5.0	180	SOT-363
-	-	PNP	150	-60	-50	-150	120/560	-1/-6	-0.5	-50/-5.0	140	-

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