

Part #	Package	P _D (W)	I _C (A)	V _{CEO} (V)	V _{CBO} (V)	h _{FE}
2SC1004	TO-3	50	0.5	700	1100	30-160
2SC1024	TO-66	25	3	60	60	25-
2SC1027	TO-3	50	6	80	250	10-
2SC1030	TO-3	50	6	80	150	35-200
2SC1034	TO-66	25	1		1100	4-40
2SC1046	TO-3	25	3	400	1000	4-20
2SC1050	TO-3	40	1	300	300	30-200
2SC1051	TO-3	60	7	100	150	40-320
2SC1061	TO-220	25	3	50	50	35-320
2SC1079	TO-3	100	12	120	120	40-140
2SC1080	TO-3	100	12	100	100	40-140
2SC1102	TO-66	11	0.05	300	300	40-200
2SC1106	TO-3	80	2	250	350	30-
2SC1108	TO-220	40	4	100	100	100-320
2SC1111	TO-3	50	6	80	140	30-150
2SC1112	TO-3	50	6	100	120	30-150
2SC1113	TO-66	40	6	100	120	30-
2SC1114	TO-3	100	4	300	325	20-
2SC1115	TO-3	100	10	80	140	30-150
2SC1116	TO-3	100	10	120	180	50-
2SC1140	TO-3	150	15	400	800	10-25
2SC1141	TO-3	150	15	300	600	10-25
2SC1153	TO-3	50	2.5	500	1200	
2SC1154	TO-3	50	3.5	500	1200	
2SC1161	TO-66	15	1	120	200	30-200
2SC1162	TO-126	10	2.5	35	35	60-320
2SC1163	TO-126	20.8	0.1	300	300	30-240
2SC1170	TO-3	50	3.5	500	1200	10-
2SC1170A	TO-3	50	3.5	500	1400	10-
2SC1172	TO-3	50	5	600	1500	10-
2SC1173	TO-220	10	3	30	30	70-240
2SC1185	TO-3	50	0.7	250	300	40-200
2SC1195	TO-3	100	2.5	200	200	30-150
2SC1212	TO-126	8	1	50	50	60-200
2SC1212A	TO-126	8	1	80	80	60-200
2SC1227	TO-3	100	10	200	300	50-
2SC1235	TO-66	6.5	0.1	300	300	30-160
2SC1295	TO-3	40	2	350	1000	3-13
2SC1308	TO-3	50	7	400	1500	8-

2SC1309	TO-3	80	5	500	1200	10-
2SC1316	TO-66	23	2	750	750	4-14
2SC1325	TO-3	80	6	600	1500	10-45
2SC1343	TO-3	100	10	110	150	30-200
2SC1348	TO-3	125	4	500	1000	4.5-19
2SC1358	TO-3	50	4.5	500	1400	3-35
2SC1367	TO-3	50	1	600	1000	30-120
2SC1368	TO-126	8	1.5	25	25	60-320
2SC1391	TO-66	6.5	0.1	300	300	30-160
2SC1398	TO-220	15	2	50	70	50-220
2SC1398A	TO-220	15	2	70	70	50-160
2SC1402	TO-3	70	8	80	140	30-
2SC1403	TO-3	70	8	100	160	30-
2SC1413	TO-3	50	5	500	1200	8-
2SC1413A	TO-3	50	5	500	1500	8-
2SC1418	TO-220	20	2	50	50	35-320
2SC1419	TO-220	20	2	50	50	35-320
2SC1431	TO-66	23	2	110	110	50-240
2SC1433	TO-3	50	5	400	600	20-300
2SC1440	TO-3	150	15	150	150	20-
2SC1441	TO-3	150	15	200	200	20-
2SC1444	TO-66	40	6	60	80	30-
2SC1445	TO-66	40	6	80	100	30-
2SC1446	TO-220	10	0.15	300	300	30-150
2SC1447	TO-220	20	0.15	300	300	40-170
2SC1448	TO-220	25	1.5	150	150	40-140
2SC1449	TO-126	10	2	35	40	40-250
2SC1450	TO-66	20	0.4	150	150	30-150
2SC1454	TO-3	50	4	250	300	20-
2SC1456	TO-66	10	0.15	300	300	30-150
2SC1469	TO-3	100	10	400	500	8-
2SC1504	TO-66	40	2	300	400	20-
2SC1505	TO-220	15	0.2	300	300	40-200
2SC1507	TO-220	15	0.2	300	300	40-200
2SC1514	TO-126	1.25	0.1	300	300	30-200
2SC1516	TO-220	10	1.5	35	35	60-200
2SC1520	TO-126	10	0.2	250	250	40-200
2SC1565	TO-126	10	0.25	150	150	
2SC1567	TO-126	1.2	0.5	100	100	65-330
2SC1567A	TO-126	1.2	0.5	120	120	65-330

2SC1568	TO-126	1.2	1	18	18	90-280
2SC1569	TO-220	12.5	0.2	300	300	40-170
2SC1576	TO-3	100	8	330	450	30-150
2SC1577	TO-3	80	8	400	500	30-
2SC1579	TO-3	150	15	400	500	10-25
2SC1580	TO-3	150	15	500	600	10-25
2SC1584	TO-3	150	15	100	150	30-
2SC1585	TO-3	150	15	150	200	60-
2SC1586	TO-3	150	15	200	250	60-
2SC1609	TO-3	120	25	120	140	20-100
2SC1610	TO-3	100	10	100	150	30-160
2SC1617	TO-3	50	7	100	300	30-150
2SC1618	TO-3	50	6	60	80	20-180
2SC1619	TO-3	50	6	80	100	20-180
2SC1623	SOT23	0.2	0.1	50	60	90-600(1mA/6V)
2SC1624	TO-220	15	1	120	120	70-240
2SC1625	TO-220	15	1	100	100	70-240
2SC1626	TO-220	10	0.75	80	80	70-240
2SC1629	TO-3	50	8	90	90	50-
2SC1667	TO-3	50	4	90	90	40-200
2SC1669	TO-220F	25	1.5	150	150	
2SC1672	TO-3	120	25	120	150	20-100
2SC1678	TO-220	10	3	65	65	15-
2SC1683	TO-220	20	0.5	150	200	60-200
2SC1722	TO-220	1.8	0.2	300	300	50-300
2SC1723	TO-220	15	0.2	300	300	40-200
2SC1755	TO-220	15	0.2	300	300	40-200
2SC1756	TO-220	15	0.2	300	300	40-200
2SC1768	TO-3	50	5	200	200	400-
2SC1777	TO-3	50	6	70	70	30-150
2SC1783	TO-3	100	10	120	180	30-
2SC1785	TO-3	100	15	200	200	20-
2SC1815	TO-92	0.2	0.15	50	60	70-700(2mA/6V)
2SC1818	TO-3	100	7	130	130	
2SC1819M	TO-220	15	0.1	300	300	50-250
2SC1826	TO-220	30	4	60	80	40-320
2SC1827	TO-220	30	4	80	80	60-240
2SC1828	TO-66	40	1	400	800	30-200
2SC1832	TO-3	150	15	400	500	100-
2SC1846	TO-126	5	1	35	45	85-340

2SC1847	TO-126	5	1.5	40	50	80-220
2SC1848	TO-202	10	2	50	70	50-220
2SC1863	TO-66	40	7	100	150	20-
2SC1868	TO-3	80	7	400	450	15-50
2SC1870	TO-3	100	10	250	300	15-
2SC1871A	TO-3	100	10	400	500	15-
2SC1875	TO-3	50	3.5	500	1500	10-35
2SC1880	TO-220	15	2	120	120	1K-
2SC1881	TO-220	30	3	60	60	1k-
2SC1883	TO-220	30	5	120	120	1K-
2SC1884	TO-66	40	8	120	120	1K-
2SC1893	TO-3	50	3.5	500	1500	10-40
2SC1894	TO-3	50	5	600	1500	10-40
2SC1895	TO-3	50	6	600	1500	8-30
2SC1904	TO-126	1	0.05	150	150	35-500
2SC1905	TO-220	15	0.2	300	350	40-250
2SC1913	TO-220	15	1	150	150	65-330
2SC1913A	TO-220	15	1	180	180	65-330
2SC1922	TO-3	50	2.5	800	1500	8-40
2SC1929	TO-220	25	0.4	300	300	35-350
2SC1942	TO-3	50	3	800	1500	8-40
2SC1953	TO-126	1.2	0.05	150	150	130-330
2SC1969	TO-220	20	6	25	60	10-180
2SC1970	TO-220	5	0.6	17	40	10-180
2SC1971	TO-220	12.5	2	17	35	10-180
2SC1975	TO-220	12	3	90	120	50-200
2SC1985	TO-220	40	6	60	80	40-
2SC1986	TO-220	40	6	80	100	40-
2SC2022	TO-220	30	1	300	300	30-
2SC2023	TO-220	40	2	300	300	30-
2SC2027	TO-3	50	5	800	1500	8-36
2SC2028	TO-126	1	1.5	50	80	90-320
2SC2073	TO-220	25	1.5	150	150	40-140
2SC2075	TO-220	10	4	80	80	25-
2SC2078	TO-220	10	3	75	80	25-200
2SC2085	TO-220	10	0.1	300	300	30-150
2SC2098	TO-220	25	6	70	70	20-100
2SC2120	TO-92	0.6	0.8	30	35	100-320
2SC2122	TO-3	50	10	325	800	15-
2SC2123	TO-3	50	12	400	1000	5-

2SC2137	TO-3	80	7	400	500	10-
2SC2139	TO-3	100	10	400	500	10-
2SC2139A	TO-3	100	10	400	500	10-
2SC2140	TO-3	100	10	350	500	10-
2SC2151	TO-3	150	15	400	600	10-
2SC2166	TO-220	12.5	4	45	45	35-180
2SC2167	TO-220	30	2	150	150	60-
2SC2168	TO-220	30	2	200	200	60-
2SC2189	TO-3	80	10	100	150	40-
2SC2209	TO-126	10	1.5	40	50	80-220
2SC2229	TO-92	0.8	0.05	150	200	70-240
2SC2233	TO-220	40	4	60	200	30-150
2SC2238	TO-220	25	1.5	160	160	70-240
2SC2238A	TO-220	25	1.5	180	180	70-240
2SC2238B	TO-220	25	1.5	200	200	70-240
2SC2239	TO-66	25	1.5	160	160	70-240
2SC2243	TO-3	100	5	400	450	10-
2SC2244	TO-3	100	8	400	450	10-
2SC2245	TO-3	100	10	400	450	10-
2SC2246	TO-3	100	15	400	450	10-
2SC2248	TO-66	40	8	400	450	10-
2SC2258	TO-126	1	0.1	250	250	40-
2SC2260	TO-3	80	8	100	160	30-
2SC2261	TO-3	80	8	120	180	30-
2SC2262	TO-3	80	8	140	200	30-
2SC2266	TO-3	100	10	400	500	10-50
2SC2270	TO-126	10	5	20	50	140-450
2SC2275	TO-220	25	1.5	120	120	60-320
2SC2275A	TO-220	25	1.5	150	150	60-320
2SC2292	TO-3	80	8	400	500	15-
2SC2293	TO-3	100	10	400	500	15-
2SC2304	TO-3	100	12	400	500	15-50
2SC2305	TO-3PN	80	7	400	400	15-50
2SC2307	TO-3PN	100	12	400	500	10-
2SC2314	TO-126	0.8	1.5	75	75	60-320
2SC2316	TO-220	50	6	80	100	500-
2SC2331	TO-220	15	2	100	100	40-200
2SC2333	TO-220	15	2	400	500	20-80
2SC2334	TO-220	40	7	100	150	40-200
2SC2335	TO-220	40	7	400	500	20-80

2SC2335F	TO-220F	40	7	400	500	20-80
2SC2336	TO-220	25	1.5	180	180	60-320
2SC2336A	TO-220	25	1.5	200	200	60-320
2SC2336B	TO-220	25	1.5	250	250	60-320
2SC2337	TO-3	100	10	130	150	40-320
2SC2344	TO-220	25	1.5	160	180	60-200
2SC2358	TO-3	150	10	800	1000	15-
2SC2361	TO-220	25	4	70	100	50-240
2SC2365	TO-3	50	6	500	600	12-
2SC2373	TO-220	40	7.5	100	200	15-70
2SC2383	TO-92	0.9	1	160	160	60-320
2SC2402	TO-3	150	15	200	300	
2SC2412	SOT23	0.2	0.15	50	60	120-560(1mA/6V)
2SC2414	TO-3	70	2	400	500	8-
2SC2415	TO-3	90	7	400	500	8-
2SC2416	TO-3	120	10	400	500	15-
2SC2429	TO-3	150	15	400	450	10-40
2SC2433	TO-3	150	30	120	120	35-200
2SC2437	TO-3	100	7	400	450	10-
2SC2438	TO-220	50	7	80	150	30-
2SC2440	TO-220	40	5	400	450	15-
2SC245	TO-3	75	5	120	120	35-
2SC2450	TO-3	80	7	700	750	
2SC2451	TO-3	80	7	700	750	
2SC2460	TO-3	100	12	140	140	55-240
2SC2461	TO-3	150	15	160	160	55-240
2SC2481	TO-126	20	1.5	150	150	60-320
2SC2482	TO-92	0.9	0.1	300	300	30-150
2SC2484	TO-3PN	60	5	80	80	40-220
2SC2485	TO-3PN	70	6	100	100	40-200
2SC2486	TO-3PN	80	7	120	120	40-200
2SC2488	TO-3	100	8	150	150	40-280
2SC2489	TO-3	120	10	150	150	40-280
2SC2492	TO-3	100	10	120	120	
2SC2493	TO-3	100	10	150	150	
2SC2497	TO-126	5	1.5	50	70	80-220
2SC2497A	TO-126	5	1.5	60	70	80-220
2SC2502	TO-220	50	6	400	500	15-
2SC2507	TO-3	200	20	400	500	15-
2SC2516	TO-220	30	5	60	150	40-200

2SC2517	TO-220	30	5	100	150	40-200
2SC2518	TO-220	40	5	400	500	20-80
2SC2522	TO-3	120	12	120	120	60-200
2SC2523	TO-3	120	12	160	160	60-200
2SC2525	MT-200	120	12	120	120	60-200
2SC2527	TO-220	60	10	120	120	60-200
2SC2534	TO-220	20	2	400	500	20-
2SC2535	TO-220	40	5	400	500	10-
2SC2542	TO-220	40	5	400	450	10-
2SC2552	TO-220	20	2	400	500	20-
2SC2553	TO-220	40	5	400	500	12-
2SC2555	TO-3PN	80	8	400	500	15-
2SC2556	TO-126	1.2	1	40	130	150-350
2SC2556A	TO-126	1.2	1	50	180	150-350
2SC2562	TO-220	25	5	50	60	70-240
2SC2563	TO-3PN	80	8	120	120	55-160
2SC2564	MT-200	150	12	140	140	55-240
2SC2565	MT-200	150	15	160	160	55-240
2SC2577	TO-3PN	60	6	80	120	50-
2SC2578	TO-3PN	70	7	100	140	50-
2SC2579	TO-3PN	80	8	160	160	50-
2SC2580	TO-3PN	90	9	120	180	50-
2SC2581	TO-3PN	100	10	140	200	50-
2SC2582	TO-126	10	1	35	45	85-340
2SC2588	MT-200	120	12	130	130	60-200
2SC2590	TO-126	1.2	0.5	120	120	90-220
2SC2591	TO-220	20	1	150	150	90-330
2SC2592	TO-220	20	1	180	180	90-330
2SC2594	TO-126	10	5	20	40	140-450
2SC2608	TO-3	200	17	200	200	20-
2SC2611	TO-126	1.25	0.1	300	300	30-200
2SC2612	TO-220	30	3	400	500	15-
2SC2613	TO-220	40	5	400	500	15-
2SC2615	TO-3PN	80	8	400	500	15-
2SC2616	TO-3	100	10	400	500	15-
2SC2624	TO-3PN	80	5	400	450	10-
2SC2625	TO-3PN	80	10	400	450	10-
2SC2626	TO-3PN	80	15	300	400	10-
2SC2637	TO-126	15	0.1	300	300	
2SC2650	MT-200	100	10	400	500	10-

2SC2650	TO-3PL	100	10	400	500	10-
2SC2654	TO-220	40	7	40	100	40-320
2SC2655	TO-92	0.9	2	50	50	70-240
2SC2656	TO-3PN	80	7	400	450	10-
2SC2657	TO-3	70	1.5	500	800	8-
2SC2658	TO-3	90	5	500	800	8-
2SC2659	TO-3	120	7	500	800	8-
2SC2660	TO-220	30	2	150	200	60-240
2SC2660A	TO-220	30	2	180	200	60-240
2SC2665	TO-3PN	55	4	80	100	40-
2SC2681	TO-3PFa	100	10	115	115	60-200
2SC2681	TO-3PN	100	10	115	115	60-200
2SC2682	TO-126	10	0.1	180	180	100-320
2SC2690	TO-126	20	1.2	120	120	60-320
2SC2690A	TO-126	20	1.2	160	160	60-320
2SC2706	TO-3PN	100	10	140	140	55-160
2SC2707	TO-3	150	15	180	180	55-160
2SC2712	SOT23	0.15	0.15	50	60	70-700(2mA/6V)
2SC2716	TO-220	20	6	30	80	20-180
2SC2723	TO-3PN	150	15	400	450	
2SC2738	TO-220	25	2	400	500	8-
2SC2739	TO-220	40	7	400	500	8-
2SC2740	TO-3PN	100	10	400	500	8-
2SC2749	TO-3PN	100	10	400	500	15-80
2SC2750	TO-3PN	100	15	100	150	30-120
2SC2751	TO-3PN	120	15	400	500	15-80
2SC2752	TO-126	10	0.5	400	500	20-80
2SC2761	TO-3	200	30	400	450	8-
2SC2767	TO-220	40	5	200	250	20-80
2SC2768	TO-220	40	6	200	250	20-
2SC2769	TO-3PN	100	10	200	250	20-60
2SC2773	MT-200	150	15	200	200	50-180
2SC2774	MT-200	200	17	200	200	50-140
2SC2788	TO-3PN	80	8	400	500	15-50
2SC2791	TO-3	100	5	800	900	10-
2SC2792	TO-3PN	80	2	800	850	10-
2SC2793	MT-200	100	5	800	900	10-
2SC2794	TO-126	25	2	60	60	25-
2SC2809	TO-3PN	50	2	300	300	50-
2SC2810	TO-220	50	7	400	500	10-

2SC2815	TO-220	40	5	250	300	40-
2SC2816	TO-220	40	5	400	500	15-
2SC2823	TO-3PN	70	7	120	120	5k(TYP)
2SC2826	TO-220	40	3	400	500	10-
2SC2827	TO-220	50	6	450	500	10-
2SC2830	TO-3	200	20	400	500	15-50
2SC2831	TO-220	25	1.5	500	800	8-
2SC2831A	TO-220	25	1.5	500	900	8-
2SC2832	TO-220	40	5	500	800	15-
2SC2832A	TO-220	40	5	500	900	15-
2SC2833	TO-3PN	70	5	500	800	8-
2SC2833A	TO-3PN	70	5	500	900	8-
2SC2834	TO-3PN	100	7	500	800	15-
2SC2834A	TO-3PN	100	7	500	900	15-
2SC2837	TO-3PN	100	10	150	150	50-
2SC2838	MT-200	120	12	150	150	60-
2SC2841	TO-3PN	70	7	400	500	8-
2SC2870	TO-252	10	0.1	300	300	90(TYP)
2SC2871	TO-252	10	1	60	60	40K(TYP)
2SC2871L	TO-251/TO-252	0.8	1	60	60	2K(TYP)
2SC2871S	TO-251/TO-252	0.8	1	60	60	2K(TYP)
2SC2873	SOT89	0.5	2	50	50	70-240(0.5A/2V)
2SC2877	TO-126	10	3	40	40	80-240
2SC2883	SOT89	0.5	1.5	30	30	100-320(0.5A/2V)
2SC2885	TO-251	15	2	330	330	20-160
2SC2898	TO-220	50	8	400	500	15-
2SC2899	TO-126	10	0.5	400	500	15-
2SC2902	TO-3	150	15	400	800	10-35
2SC2908	TO-3PN	50	5	100	200	60-320
2SC2911	TO-126	10	0.14	160	180	100-400
2SC2913	TO-66	40	7	400	500	12-
2SC2914	TO-3	120	10	400	500	12-
2SC2920	TO-3	150	15	400	450	10-30
2SC2921	MT-200	150	15	160	160	50-180
2SC2922	MT-200	200	17	180	180	30-180
2SC2924	TO-252	10	0.1	300	300	120(TYP)
2SC2928	TO-3	80	5	800	1500	7-
2SC2929	TO-220	40	3	400	450	20-50
2SC2930	TO-3	200	30	400	500	20-

2SC2934	TO-126	12.5	0.2	300	300	50-300
2SC2937	TO-247	80	8	400	500	10-50
2SC2938	TO-3PN	100	10	400	500	15-
2SC2939	TO-247	100	10	400	500	10-
2SC2943	TO-3PN	80	15	250	390	20-
2SC2944	TO-3PN	100	15	200	250	20-80
2SC2946	TO-252	1	2	200	300	20-160
2SC2964	TO-3	150	15	400	600	7-20
2SC2965	TO-3	150	15	450	600	7-20
2SC2970	TO-66	40	5	200	300	15-
2SC2975	TO-66	40	5	400	800	10-35
2SC2979	TO-220	40	3	800	900	15-
2SC2981	TO-3	100	8	800	900	10-
2SC2983	TO-220F	1	1.5	160	160	70-240
2SC2983	TO-251	1	1.5	160	160	70-240
2SC2983	TO-252	1	1.5	160	160	70-240
2SC2983	TO-251	20	1.5	160	160	70-240
2SC2983	TO-252	20	1.5	160	160	70-240
2SC2987	TO-3PFa	120	12	140	140	60-320
2SC2987	TO-3PN	120	12	140	140	60-320
2SC2987A	TO-3PN	120	12	160	160	60-320
2SC3012	TO-3PFa	100	10	130	130	60-320
2SC3012	TO-3PN	100	10	130	130	60-320
2SC3025	TO-3	50	5	800	1500	
2SC3026	TO-3	50	5	800	1700	
2SC3032	TO-3PN	80	7	700	900	8-
2SC3036	TO-66	40	5		800	90
2SC3038	TO-220	40	4	400	500	15-50
2SC3039	TO-220	50	7	400	500	15-50
2SC3040	TO-3PN	80	8	400	500	15-50
2SC3041	TO-3	90	8	400	500	8-
2SC3042	TO-3PN	100	12	400	500	15-50
2SC3043	TO-3	120	12	400	500	8-
2SC3047	TO-220	40	6	500	850	15-
2SC3054	TO-3PFa	100	20	400	500	
2SC3055	TO-220	15	2	400	450	20-80
2SC3058	TO-3	200	30	400	600	10-40
2SC3058A	TO-3	200	30	450	600	15-50
2SC3060	TO-3	150	5	850	1200	10-30
2SC3061	TO-3	200	10	850	1200	10-30

2SC3063	TO-126	1.2	0.1	300	300	50-250
2SC3072	TO-252	20	5	40	50	140-450
2SC3073	TO-252	20	3	30	30	70-240
2SC3074	TO-252	20	5	50	60	70-240
2SC3075	TO-252	10	0.8	400	500	20-100
2SC3076	TO-252	1	2	50	50	70-240
2SC3083	TO-3PN	60	6	400	500	15-50
2SC3086	TO-220	40	3	500	800	15-50
2SC3087	TO-220	50	5	500	800	15-50
2SC3088	TO-3PN	60	4	500	800	15-50
2SC3089	TO-3PN	80	7	500	800	15-50
2SC3090	TO-3PN	100	10	500	800	15-50
2SC3092	TO-3	90	7	500	800	15-50
2SC3117	TO-126	10	1.5	160	180	100-400
2SC3129L/S	TO-251/TO-252	0.75	0.5	400	500	12(TYP)
2SC3132	TO-252	10	3	30	30	10K(TYP)
2SC3132L/S	TO-251/TO-252	10	3	30	30	2K-5K
2SC3144	TO-220	20	3	60	70	2K-
2SC3146	TO-220	40	7	60	70	2K-
2SC3148	TO-220	40	3	800	900	10-
2SC3149	TO-220	40	1.5	800	900	10-40
2SC3150	TO-220	50	3	800	900	10-40
2SC3151	TO-3PN	60	1.5	800	900	10-40
2SC3152	TO-3PN	80	3	800	900	10-40
2SC3153	TO-3PN	100	6	800	900	10-40
2SC3156	TO-3	120	6	800	900	8-
2SC3157	TO-220	60	10	100	150	40-200
2SC3158	TO-220F	60	7	400	500	20-80
2SC3159	TO-220	80	10	400	500	15-80
2SC3159	TO-220F	80	10	400	500	15-80
2SC3163	TO-220	50	6	400	500	15-
2SC3164	TO-3PN	100	10	400	500	10-
2SC3168	TO-3	200	20	400	500	10-40
2SC3169	TO-220Fa	25	2	400	500	15-
2SC3170	TO-220Fa	40	7	400	500	15-
2SC3171	TO-3PFa	100	10	400	500	8-
2SC3175	TO-220	50	7	200	400	10-50
2SC3179	TO-220	30	4	60	80	40-
2SC3180	TO-3PN	60	6	80	80	55-160

2SC3180N	TO-3PN	60	6	80	80	55-160
2SC3181	TO-3PN	80	8	120	120	55-160
2SC3181N	TO-3PN	80	8	120	120	55-160
2SC3182	TO-3PN	100	10	140	140	55-160
2SC3182N	TO-3PN	100	10	140	140	55-160
2SC3198	TO-92	0.4	0.15	50	60	70-700
2SC3210	TO-3PFa	100	10	400	500	15-
2SC3211	TO-3PFa	70	5	500	800	8-
2SC3211A	TO-3PFa	70	5	500	900	8-
2SC3212	TO-3PFa	100	7	500	800	15-
2SC3212A	TO-3PFa	100	7	500	900	15-
2SC3214	TO-3	80	5	800	1200	10-
2SC3220	TO-3	80	10	230	230	15-
2SC3220	TO-3PN	80	10	230	230	15-
2SC3223	TO-3	200	20	230	230	10-
2SC3229	TO-220F	2	0.1	300	300	30-200
2SC3230	TO-220	10	3	30	30	70-240
2SC3231	TO-220	40	4	150	200	30-150
2SC3233	TO-251	10	2	400	500	>20
2SC3233	TO-252	10	2	400	500	>20
2SC3235	TO-220Fa	20	2	400	500	20-50
2SC3235	TO-220	20	2	400	500	20-50
2SC3250	TO-220	15	0.1	300	300	50-250
2SC3252	TO-220	30	3	60	80	70-280
2SC3253	TO-220	30	5	60	80	70-280
2SC3254	TO-220	35	7	60	80	70-280
2SC3255	TO-220	40	10	60	80	70-280
2SC3256	TO-3PN	80	15	60	80	70-280
2SC3257	TO-220	40	10	200	250	20-80
2SC3258	TO-220	30	5	80	100	70-240
2SC3260	TO-3PN	50	3	800	800	
2SC3261	TO-3PN	80	6	800	800	
2SC3262	TO-3PN	100	10	800	800	
2SC3263	TO-3PN	130	15	230	230	50-140
2SC3264	MT-200	200	17	230	230	50-140
2SC3272	TO-126	10	0.1	300	300	39-180
2SC3277	TO-3PN	90	10	400	500	15-50
2SC3280	TO-3PL	120	12	160	160	55-160
2SC3281	TO-3PL	150	15	200	200	55-160
2SC3284	TO-3PN	125	14	150	150	50-180

2SC3285	TO-3PN	70	3	800	1000	6-
2SC3296	TO-220Fa	20	1.5	150	150	40-140
2SC3297	TO-220Fa	15	3	30	30	70-240
2SC3298	TO-220F	20	1.5	160	160	70-240
2SC3298A	TO-220F	20	1.5	180	180	70-240
2SC3298B	TO-220F	20	1.5	200	200	70-240
2SC3299	TO-220Fa	20	5	50	60	70-240
2SC3300	TO-3PN	60	15	50	100	60-360
2SC3303	TO-251	20	5	80	100	70-240
2SC3303	TO-252	20	5	80	100	70-240
2SC3306	TO-3PN	100	10	400	500	10-
2SC3307	TO-3PL	150	10	800	900	10-
2SC3309	TO-220Fa	20	2	400	500	20-
2SC3310	TO-220Fa	30	5	400	500	12-
2SC3317	TO-220	40	5	400	500	10-
2SC3318	TO-3PN	80	10	400	500	10-
2SC3320	TO-3PN	80	15	400	500	10-
2SC3322	TO-3PN	80	5	800	900	15-
2SC3336	TO-3PN	100	15	400	500	12-
2SC3345	TO-220	40	12	50	60	70-240
2SC3346	TO-220	40	12	80	80	70-240
2SC3352	TO-220Fa	25	1.5	500	800	15-
2SC3353	TO-220Fa	40	5	500	800	8-
2SC3362	TO-252	10	1.5	500	500	20(TYP)
2SC3363	TO-252	10	1		800	20(TYP)
2SC3365	TO-3PN	80	10	400	500	12-
2SC3370	MT-200	150	15	200	200	
2SC3371	TO-3	200	15	500	800	10-
2SC3376	TO-3PN	60	3	800	900	10-
2SC3386	TO-251	10	3	80	80	160(TYP)
2SC3387	TO-3PN	50	5	500	1200	15-
2SC3388	TO-3	50	5	500	1200	8-
2SC3405	TO-251	20	0.8	800	900	>6
2SC3405	TO-252	20	0.8	800	900	>6
2SC3408	TO-252	10	0.1	300	300	110(TYP)
2SC3409	TO-3PN	80	2	800	900	15-
2SC3412	TO-3	50	8	500	1300	
2SC3416	TO-126	5	0.1	200	200	40-320
2SC3419	TO-126	5	0.8	40	40	70-240
2SC3420	TO-126	10	5	20	50	140-600

2SC3421	TO-126	10	1	120	120	80-240
2SC3422	TO-126	10	3	40	40	80-240
2SC3423	TO-126	5	0.05	150	150	80-240
2SC3427	TO-220	50	7	50	50	
2SC3433	TO-220F	60	10	400	500	
2SC3434	TO-3PFa	100	10	400	500	10-60
2SC3435	TO-3PFa	120	15	400	500	
2SC3446	TO-220	40	3	500	800	15-50
2SC3447	TO-220	50	5	500	800	15-50
2SC3448	TO-3PN	60	4	500	800	15-50
2SC3449	TO-3PN	80	7	500	800	15-50
2SC3450	TO-3PN	90	10	500	800	15-50
2SC3451	TO-3PN	100	15	500	800	15-50
2SC3456	TO-220	40	1.5	800	1100	10-40
2SC3457	TO-220	50	3	800	1100	10-40
2SC3458	TO-3PN	50	3	800	1100	10-40
2SC3459	TO-3PN	90	4.5	800	1100	10-40
2SC3460	TO-3PN	100	6	800	1100	10-40
2SC3461	TO-3PN	140	8	800	1100	10-40
2SC3462	TO-3	100	4.5	800	1100	10-40
2SC3465	TO-3	160	12	800	1100	10-40
2SC3466	TO-3PN	120	8	650	1200	10-40
2SC3475	TO-220Fa	20	4	60	100	60-200
2SC3479	TO-3PN	80	2.5	800	1500	8-
2SC3480	TO-3PN	80	3.5	800	1500	8-
2SC3481	TO-3PN	120	5	800	1500	8-
2SC3482	TO-3PN	120	6	800	1500	8-
2SC3486	TO-3PN	120	6	800	1500	8-
2SC3489	TO-251	10	0.8	800	900	20(TYP)
2SC3492	TO-220	40	4	50	50	
2SC3498	TO-3PL	150	30	400	500	
2SC3502	TO-126	5	0.1	200	200	40-320
2SC3503	TO-126	7	0.1	300	300	40-320
2SC3505	TO-3PN	80	6	700	900	10-
2SC3506	TO-3PFa	70	3	800	1000	6-
2SC3507	TO-3PFa	80	5	800	1000	6-
2SC3514	TO-220	10	0.1	180	180	100-320
2SC3518	TO-251	2	5	60	60	100-400
2SC3518-Z	TO-252	1	5	60	60	100-400
2SC3519	TO-3PN	130	15	160	160	50-

2SC3519A	TO-3PN	130	15	180	180	50-
2SC3527	TO-3PFa	100	15	400	500	10-
2SC3528	TO-3PFa	125	20	400	500	15-
2SC3531	TO-220	1.5	3	800	1000	10-30
2SC3533	TO-3PFa		3	800	1000	10-30
2SC3534	TO-3PFa		4	800	1000	10-30
2SC3535	TO-3PFa		6	800	1000	10-30
2SC3536	TO-3PFa		8	800	1000	10-30
2SC3540	TO-220Fa	25	5	80	100	70-240
2SC3546	MT-200	120	12	60	160	
2SC3549	TO-220	40	3	800	900	10-
2SC3550	TO-3PN	80	3	800	900	10-
2SC3551	TO-3PN	80	5	800	900	10-
2SC3552	TO-3PN	150	12	800	1100	10-40
2SC3555	TO-251	20	0.5	800	900	15(TYP)
2SC3557	TO-220	40	4	80	80	150-
2SC3558	TO-220	40	4	60	100	
2SC3559	TO-220Fa	30	3	800	900	10-
2SC3563	TO-220Fa	40	10	450	600	8-
2SC3565	TO-220F	15	0.2	300	300	30-200
2SC3566	TO-220Fa	25	5	60	80	40-200
2SC3568	TO-220Fa	30	10	100	150	40-200
2SC3569	TO-220F	15	2	400	500	20-80
2SC3570	TO-220Fa	25	5	400	500	20-80
2SC3571	TO-220Fa	30	7	400	500	20-80
2SC3577	TO-3PFa	80	5	650	850	6-
2SC3579	TO-220	50	6	800	800	
2SC3588	TO-251	10	0.5	400	500	20-80
2SC3588Z	TO-252	10	0.5	400	500	20-80
2SC3590	TO-220	50	7	150	330	10-50
2SC3591	TO-220	50	7	200	400	10-50
2SC3592	TO-252	10	5	60	60	250(TYP)
2SC3619	TO-126	1.5	0.1	300	300	30-200
2SC3621	TO-126	10	1.5	150	150	60-200
2SC3626	TO-220Fa	40	8	400	500	10-
2SC3627	TO-220Fa	30	10	200	250	20-80
2SC3631	TO-251	10	2	400	500	40-120
2SC3631Z	TO-252	10	2	400	500	40-120
2SC3632	TO-251	10	1	600	600	30-120
2SC3632Z	TO-252	10	1	600	600	30-120

2SC3636	TO-3PN	80	7	500	900	8-
2SC3637	TO-3PN	90	10	500	900	8-
2SC3638	TO-3PN	100	15	500	900	8-
2SC3640	TO-3PN	140	8	800	1200	
2SC3642	TO-3PN	100	6	800	1200	8-
2SC3657	TO-3PN	80	4	800	900	10-
2SC3658	TO-3	50	5		1500	8-
2SC3659	TO-3	50	8		1700	
2SC3664	TO-3PN	150	20	400	800	80-
2SC3675	TO-220	10	0.1	900	1500	30-
2SC3676	TO-220	20	0.3	900	1500	30-
2SC3677	TO-220Fa	25	3	60	60	2K(TYP)
2SC3678	TO-3PN	80	3	800	900	10-30
2SC3679	TO-3PN	100	5	800	900	10-30
2SC3680	TO-3PN	120	7	800	900	10-30
2SC3683	TO-3PN	150	8	800	1500	8-
2SC3685	TO-3PN	125	6	800	1500	8-
2SC3686	TO-3PN	120	7	800	1500	8-
2SC3688	TO-3PN	150	10	800	1500	8-
2SC3690	TO-220Fa	15	3	60	100	100-400
2SC3691	TO-220Fa	25	5	60	100	100-400
2SC3692	TO-220Fa	30	7	60	100	100-400
2SC3693	TO-220Fa	30	10	60	100	100-400
2SC3694	TO-220Fa	30	15	60	100	100-400
2SC3698	TO-220Fa	30	10	150	150	
2SC3709	TO-220Fa	30	12	50	60	70-240
2SC3709A	TO-220Fa	30	12	50	60	70-240
2SC3710	TO-220Fa	30	12	80	80	70-240
2SC3710A	TO-220Fa	30	12	80	80	70-240
2SC3714	TO-3PL	200	20	400	500	10-40
2SC3715	TO-3P(H)IS	50	4	600	1500	
2SC3716	TO-3P(H)IS	50	5	600	1500	
2SC3719	TO-3	150	5	800	1200	6-20
2SC3720	TO-3	200	10	800	1200	6-20
2SC3723	TO-220	40	5	400	450	10-
2SC3725	TO-3PN	80	15	400	450	10-
2SC3729	TO-3PN	50	5	800	1500	8-
2SC3737	TO-3PFa	100	5	800	1200	6-20
2SC3738	TO-3PL	175	10	800	1200	6-20
2SC3743	TO-220Fa	40	2	800	900	6-

2SC3746	TO-220F	20	5	60	80	70-280
2SC3747	TO-220F	25	7	60	80	70-280
2SC3748	TO-220F	30	10	60	80	70-280
2SC3749	TO-220F	25	3	500	800	15-50
2SC3750	TO-220F	30	5	500	800	15-50
2SC3751	TO-220F	25	1.5	800	1100	10-40
2SC3752	TO-220F	30	3	800	1100	10-40
2SC3753	TO-3PF	60	5	800	1500	
2SC3754	TO-3PF	60	6	800	1500	
2SC3755	TO-3PF	60	5	800	1500	
2SC3756	TO-3PF	60	6	800	1500	8-36
2SC3762	TO-3PF	65	15	100	150	30-120
2SC3783	TO-3PN	100	5	800	900	10-
2SC3789	TO-126	7	0.1	300	300	40-320
2SC3790	TO-126	7	0.1	300	300	40-320
2SC3794	TO-220Fa	25	1.5	500	800	15-
2SC3794A	TO-220Fa	25	1.5	500	900	15-
2SC3795	TO-220Fa	40	5	500	800	15-
2SC3795A	TO-220Fa	40	5	500	900	15-
2SC3795B	TO-220F	50	6	600	1300	15-
2SC3796	TO-3PN	70	5	500	800	8-
2SC3797	TO-3PN	100	7	500	800	8-
2SC3798	TO-3PFa	70	5	500	800	8-
2SC3799	TO-3PFa	100	7	500	800	8-
2SC3805	TO-251	10	0.1	300	300	30-200
2SC3821	TO-220Fa	40	5	400	450	10-
2SC3822	TO-220Fa	30	5	400	450	10-30
2SC3824	TO-252	15	1	800	900	>6
2SC3824A	TO-251	15	1	900	900	>6
2SC3825	TO-252	15	2	400	500	15(TYP)
2SC3830	TO-220	50	6	500	600	10-30
2SC3831	TO-3PN	100	10	500	600	10-30
2SC3832	TO-220	50	7	400	500	10-30
2SC3833	TO-3PN	100	12	400	500	10-
2SC3833	TO-3PN	100	12	400	500	10-30
2SC3834	TO-220	50	7	120	200	70-220
2SC3835	TO-3PN	70	7	120	200	70-220
2SC3835G	TO-3PN	70	7	120	200	160-220
2SC3842	TO-3PF	70	10	400	600	10-40
2SC3843	TO-3PF	75	10	450	600	

2SC3850	TO-3PN	125	20	400	500	15-
2SC3851	TO-220F	25	4	60	80	40-320
2SC3851A	TO-220F	25	4	80	100	40-320
2SC3852	TO-220F	25	3	60	80	500-
2SC3852A	TO-220F	25	3	80	100	500-
2SC3853	TO-3PN	60	6	80	120	50-
2SC3854	TO-3PN	80	8	120	160	50-
2SC3855	TO-3PN	100	10	140	200	50-
2SC3856	TO-3PN	130	15	180	200	50-
2SC3857	MT-200	150	15	200	200	50-
2SC3858	MT-200	200	17	200	200	50-
2SC3866	TO-220Fa	40	3	800	900	10-
2SC3868	TO-220Fa	25	1.5	400	500	15-
2SC3870	TO-220Fa	40	7	400	500	15-
2SC3871	TO-220Fa	45	10	400	500	15-
2SC3873	TO-3PFa	100	12	400	500	15-
2SC3874	TO-3PL	150	15	400	500	15-
2SC3883	TO-3PN	50	5	800	1500	
2SC3884	TO-3P(H)IS	50	6	600	1400	8-
2SC3885	TO-3P(H)IS	50	7	600	1400	8-
2SC3886	TO-3P(H)IS	50	8	600	1400	8-
2SC3886A	TO-3P(H)IS	50	8	600	1500	8-
2SC3890	TO-220F	30	7	400	500	10-30
2SC3891	TO-3P(H)IS	50	6	600	1400	
2SC3892	TO-3P(H)IS	50	7	600	1400	8-
2SC3892A	TO-3P(H)IS	50	7	600	1500	8-
2SC3893	TO-3P(H)IS	50	8	600	1400	8-
2SC3894	TO-3PF	60	6	800	1500	4-8
2SC3895	TO-3PF	60	7	800	1500	4-8
2SC3896	TO-3PF	70	8	800	1500	4-8
2SC3897	TO-3PF	70	10	800	1500	4-8
2SC3902	TO-126	10	1.5	160	180	100-400
2SC3907	TO-3PN	130	12	180	180	55-180
2SC3910	TO-3PL	150	15	500	800	15-
2SC3927	TO-3PN	120	10	550	900	10-28
2SC3942	TO-220Fa	10	0.1	300	300	50-250
2SC3944	TO-220Fa	15	1	150	150	95-220
2SC3944A	TO-220Fa	15	1	180	180	95-220
2SC3947	TO-3PF	70	5	500	850	10-30
2SC3949	TO-3PF	80	15	500	850	10-30

2SC3961	TO-220	40	5	400	500	
2SC3962	TO-220	40	5	400	500	15-50
2SC3968	TO-220	20	2	400	400	25-50
2SC3969	TO-220Fa	20	2	400	400	25-50
2SC3970	TO-220Fa	25	1.5	500	800	8-
2SC3970A	TO-220Fa	25	1.5	500	900	8-
2SC3972	TO-220Fa	40	5	500	800	8-
2SC3972A	TO-220Fa	40	5	500	900	8-
2SC3973	TO-220Fa	45	7	500	800	8-
2SC3973A	TO-220Fa	45	7	500	900	8-
2SC3973B	TO-220Fa	45	7	500	1000	8-
2SC3974	TO-3PFa	80	7	500	800	8-
2SC3975	TO-3PFa	100	10	500	800	8-
2SC3979	TO-220Fa	40	3	800	900	6-
2SC3979A	TO-220Fa	40	3	800	1000	6-
2SC3980	TO-3PFa	70	4	800	900	6-
2SC3981	TO-3PFa	80	5	800	900	6-
2SC3987	TO-220F	15	3	50	50	4K(TYP)
2SC3987	TO-3PF	20	3	50	50	1000-
2SC3988	TO-3PN	150	25	500	800	15-50
2SC3993	TO-3PL	250	16	800	1100	10-40
2SC3994	TO-3PL	300	25	800	1100	10-40
2SC3995	TO-3PL	180	12	800	1500	8-30
2SC3996	TO-3PL	180	15	800	1500	8-30
2SC3997	TO-3PL	250	20	800	1500	8-30
2SC3998	TO-3PL	250	25	800	1500	8-30
2SC4001	TO-126	7	0.1	250	300	60-320
2SC4003	TO-251	1	0.2	400	400	60-200
2SC4003	TO-252	1	0.2	400	400	60-200
2SC4004	TO-220Fa	30	1	800	900	3-
2SC4006	TO-220F	20	3	42	42	2K-
2SC4007	TO-220	40	4	80	100	100-500
2SC4008	TO-220Fa	30	4	80	100	100-500
2SC4019	TO-251	10	0.1	300	300	100(TYP)
2SC4020	TO-220	50	3	800	900	10-30
2SC4021	TO-3PN	100	3	800	1500	
2SC4024	TO-220F	35	10	100	100	
2SC4026	TO-220Fa	35	5	400	500	8-
2SC4027	TO-251	15	1.5	400	400	35-320
2SC4027	TO-252	15	1.5	400	400	35-320

2SC4029	TO-3PL	150	15	230	230	55-160
2SC4051	TO-220	40	3	450	600	10-
2SC4052	TO-220F	25	3	450	600	10-
2SC4053	TO-220	50	5	450	600	10-
2SC4054	TO-220F	30	5	450	600	10-
2SC4055	TO-220	60	8	450	600	10-
2SC4056	TO-220F	45	8	450	600	10-
2SC4057	TO-3PN	80	8	450	600	10-
2SC4058	TO-3PN	100	10	450	600	10-
2SC4059	TO-3PN	130	15	450	600	10-
2SC4060	TO-3PN	150	20	450	600	10-
2SC4064	TO-220F	35	12	50	50	50-
2SC4073	TO-220F	30	5	400	500	10-30
2SC4075	TO-220F	10	0.2	300	300	40-200
2SC4105	TO-220	40	4	400	500	15-50
2SC4106	TO-220	50	7	400	500	15-50
2SC4107	TO-220	60	10	400	500	15-50
2SC4108	TO-3PN	100	12	400	500	15-50
2SC4109	TO-3PN	140	16	400	500	15-50
2SC4110	TO-3PN	160	25	400	500	15-50
2SC4111	TO-3PL	150	10	700	1500	3-8
2SC4115	SOT89/TO-92	0.5	3	20	40	120-560(0.1A/2V)
2SC4122	TO-3PF	60	6	800	1500	
2SC4123	TO-3PF	60	7	800	1500	4-6
2SC4124	TO-3PF	70	8	800	1500	4-6
2SC4125	TO-3PF	70	10	800	1500	4-6
2SC4129	TO-220Fa	30	5	400	400	16-50
2SC4130	TO-220F	30	7	400	500	10-30
2SC4131	TO-3PF	60	15	50	100	60-360
2SC4134	TO-251	10	1	100	120	100-400
2SC4134	TO-252	10	1	100	120	100-400
2SC4135	TO-251	15	2	100	120	100-400
2SC4135	TO-252	15	2	100	120	100-400
2SC4138	TO-3PN	80	10	400	500	10-30
2SC4139	TO-3PN	120	15	400	500	10-30
2SC4140	TO-3PN	130	18	400	500	10-30
2SC4142	TO-3PN	70	8	800	1500	
2SC4148	TO-220F	25	7	40	60	70-
2SC4149	TO-220F	25	10	40	60	70-
2SC4150	TO-220F	25	12	40	60	70-

2SC4151	TO-220F	30	15	40	60	70-
2SC4153	TO-220F	30	7	120	200	70-220
2SC4157	TO-3PN	100	10	450	600	15-
2SC4159	TO-220F	15	1.5	160	180	60-200
2SC4160	TO-220F	25	4	400	500	15-50
2SC4161	TO-220F	30	7	400	500	15-50
2SC4162	TO-220F	35	10	400	500	15-50
2SC4163	TO-220F	40	12	400	500	15-50
2SC4164	TO-220	70	12	400	500	15-50
2SC4205	TO-220	40	5	400	400	16-50
2SC4230	TO-220	50	2	800	1200	8-
2SC4231	TO-220F	30	2	800	1200	8-
2SC4232	TO-3PN	70	2	800	1200	8-
2SC4233	TO-220	60	3	800	1200	8-
2SC4234	TO-220F	45	3	800	1200	8-
2SC4235	TO-3PN	80	3	800	1200	8-
2SC4236	TO-3PN	100	6	800	1200	8-
2SC4237	TO-3PN	150	10	800	1200	8-
2SC4242	TO-220	40	7	400	450	10-
2SC4272	SOT89	0.5	1	45	75	60-320(0.5A/5V)
2SC4273	TO-220	40	5	400	500	25-55
2SC4274	TO-220	40	10	400	500	25-55
2SC4275	TO-3PN	80	10	400	500	25-65
2SC4276	TO-3PN	80	15	400	500	25-65
2SC4277	TO-3PN	80	5	400	400	18-52
2SC4278	TO-3PN	100	10	150	150	60-320
2SC4286	TO-3PL	100	8	600	1400	
2SC4288	TO-3PL	200	12	600	1500	8-
2SC4288A	TO-3PL	200	12	600	1500	8-
2SC4293	TO-3PN	50	5	800	1500	4-6
2SC4294	TO-3PN	50	6	800	1500	4-6
2SC4296	TO-3PF	75	10	400	500	10-30
2SC4297	TO-3PF	75	12	400	500	10-30
2SC4298	TO-3PF	80	15	400	500	10-30
2SC4299	TO-3PF	70	3	800	900	10-30
2SC4300	TO-3PF	75	5	800	900	10-30
2SC4301	TO-3PF	80	7	800	900	10-30
2SC4303	TO-3PF	80	6	800	1400	6-
2SC4304	TO-220F	35	3	800	900	10-30
2SC4306	TO-251/TO-252	15	8	20	30	100-400

2SC4313	TO-3PN	100	10	800	900	7-
2SC4327	TO-220F	25	7	35	50	50-
2SC4330	TO-220	40	10	100	150	100-400
2SC4331	TO-251	15	5	100	150	100-400
2SC4331-Z	TO-252	15	5	100	150	100-400
2SC4332	TO-251	15	5	60	100	100-400
2SC4332-Z	TO-252	15	5	60	100	100-400
2SC4333	TO-251	15	7	30	40	200(TYP)
2SC4336	TO-220Fa	30	10	100	100	100-400
2SC4337	TO-251	15	7	60	60	2K-20K
2SC4337-Z	TO-252	15	7	60	60	2K-20K
2SC4338	TO-251	8	2	80	80	2K-20K
2SC4338-Z	TO-252	8	2	80	80	2K-20K
2SC4339	TO-251	9	3	100	150	2K-20K
2SC4339-Z	TO-252	9	3	100	150	2K-20K
2SC4343	TO-251	18	7	100	150	200(TYP)
2SC4344	TO-251	18	7	60	100	200(TYP)
2SC4345	TO-251	12	5	100	100	10K(TYP)
2SC4346	TO-251/TO-252	18	5	400	500	20-80
2SC4350	TO-220	40	10	100	100	2K-20K
2SC4368	TO-220F	20	1.5	150	150	40-140
2SC4369	TO-220F	15	3	30	30	70-240
2SC4370	TO-220F	20	1.5	160	160	70-240
2SC4371	TO-220F	30	5	400	500	12-
2SC4373	SOT89	0.5	0.8	120	120	80-240(0.1A/5V)
2SC4375	SOT89	0.5	1.5	30	30	100-320(0.5A/2V)
2SC4381	TO-220F	25	2	150	150	60-
2SC4382	TO-220F	25	2	200	200	60-
2SC4383	TO-220Fa	40	8	180	200	30-
2SC4385	TO-3PF	60	6	80	120	50-180
2SC4386	TO-3PF	75	8	120	160	50-180
2SC4387	TO-3PF	80	10	140	200	50-180
2SC4388	TO-3PF	85	15	180	200	50-180
2SC4418	TO-220F	30	5	400	500	10-30
2SC4419	TO-3PN	100	6	800	900	10-
2SC4421	TO-220Fa	40	3	400	500	6-
2SC4423	TO-3PF	55	12	400	500	15-50
2SC4424	TO-3PF	60	16	400	500	15-50
2SC4425	TO-3PF	65	25	400	500	15-50
2SC4426	TO-3PF	45	3	800	1100	10-40

2SC4427	TO-3PF	50	4.5	800	1100	10-40
2SC4428	TO-3PF	55	6	800	1100	10-40
2SC4429	TO-3PF	60	8	800	1100	10-40
2SC4430	TO-3PF	65	12	800	1100	10-40
2SC4434	TO-3PN	120	15	400	500	10-25
2SC4437	TO-3PF	50	5	800	1500	4-6
2SC4438	TO-3PF	50	6	800	1500	4-6
2SC4442	TO-220F	40	4	400	500	10-
2SC4442	TO-220Fa	45	4	400	500	6-
2SC4445	TO-3PF	60	3	800	900	10-30
2SC4448	TO-220F	10	0.15	250	250	40-200
2SC4460	TO-3PF	55	15	500	800	15-50
2SC4466	TO-3PN	60	6	80	120	50-180
2SC4467	TO-3PN	80	8	120	160	50-180
2SC4468	TO-3PN	100	10	140	200	50-180
2SC4478	TO-220F	30	7	200	400	10-50
2SC4495	TO-220F	25	3	50	80	500-
2SC4496	TO-220	30	8	90	90	2k-
2SC4499L/S	TO-251/TO-252	0.75	0.5	400	500	>12
2SC4507	TO-220F	40	5	400	500	25-65
2SC4508	TO-220F	40	10	400	500	25-65
2SC4509	TO-3PF	80	10	400	500	25-65
2SC4510	TO-3PF	80	15	400	500	25-65
2SC4511	TO-220F	30	6	80	120	50-180
2SC4512	TO-220	50	6	80	120	50-180
2SC4517	TO-220F	30	3	550	900	10-30
2SC4517A	TO-220F	30	3	550	1000	10-30
2SC4518	TO-220F	35	5	550	900	10-25
2SC4518A	TO-220F	35	5	550	1000	10-25
2SC4522	TO-251	15	5	45	60	100-400
2SC4523	TO-251	15	8	45	60	100-400
2SC4531	TO-3P(H)IS	50	10	600	1500	8-
2SC4533	TO-220Fa	30	3	400	500	8-40
2SC4538	TO-3PF	80	5	800	900	10-
2SC4542	TO-3P(H)IS	50	10	600	1500	8-
2SC4544	TO-220F	8	0.1	300	300	30-200
2SC4546	TO-220F	30	7	400	600	10-25
2SC4549	TO-220F	25	5	60	100	100-400
2SC4550	TO-220F	30	7	60	100	100-400
2SC4551	TO-220F	30	10	60	100	100-400

2SC4552	TO-220F	30	15	60	100	100-400
2SC4557	TO-3PF	80	10	550	900	10-28
2SC4559	TO-220Fa	40	7	400	500	8-
2SC4573	TO-220	35	4	60	60	2k-
2SC4574	TO-220Fa	30	4	60	60	2k-
2SC4580	TO-3PF	50	8	450	600	10-
2SC4581	TO-3PF	65	10	450	600	10-
2SC4582	TO-3PF	75	15	450	600	10-
2SC4583	TO-3PF	50	3	800	1200	8-
2SC4584	TO-3PF	65	6	800	1200	8-
2SC4585	TO-3PF	85	10	800	1200	8-
2SC4589	TO-3PF	50	10	800	1500	8-38
2SC4595	TO-220Fa	30	12	60	100	60-320
2SC4596	TO-220Fa	25	5	60	100	60-320
2SC4598	TO-263	1.65	7	400	500	15-50
2SC4599	TO-263	1.65	3	500	800	15-50
2SC4600	TO-263	1.65	5	500	800	15-50
2SC4601	TO-263	1.65	1.5	800	1100	10-40
2SC4602	TO-263	1.65	3	800	1100	10-40
2SC4603	TO-3PF	80	3	800	900	10-
2SC4622	TO-220	50	7	400	500	10-
2SC4652	TO-3PN	80	8	120	120	60-320
2SC4653	TO-3PN	80	12	60	60	60-320
2SC4662	TO-220F	30	5	400	500	10-30
2SC4672	SOT89	0.5	2	50	60	82-270(500mA/2V)
2SC4687	TO-3PN	60	7	400	500	8-
2SC4688	TO-3PF	55	6	80	80	55-160
2SC4689	TO-3PF	70	8	120	120	55-160
2SC4690	TO-3PF	80	10	140	140	55-160
2SC4706	TO-3PN	130	14	600	900	10-25
2SC4742	TO-3PN	50	6		1500	-25
2SC4743	TO-3PN	50	6	800	1500	15-30
2SC4744	TO-3PF	50	6		1500	-25
2SC4745	TO-3PF	50	6	800	1500	7-30
2SC4746	TO-3PF	50	8	800	1500	8-38
2SC4747	TO-3PF	50	10	800	1500	-30
2SC4757	TO-3P(H)IS	50	7	600	1500	4-8
2SC4758	TO-3P(H)IS	50	8	600	1500	4-8
2SC4759	TO-3P(H)IS	50	10	600	1500	4-8
2SC4761	TO-3P(H)IS	50	6	600	1700	3.5-7.5

2SC4762	TO-3P(H)IS	50	±7	600	1500	5-9
2SC4763	TO-3P(H)IS	50	±8	600	1500	5-9
2SC4764	TO-3P(H)IS	50	±6	600	1500	5-9
2SC4765	TO-3P(H)IS	50	±5	600	1700	3.5-7.5
2SC4766	TO-3P(H)IS	50	±6	600	1700	3.5-7.5
2SC4769	TO-3PF	60	7	800	1500	3-8
2SC4770	TO-3PF	60	7	800	1500	3-8
2SC4789	TO-3PL	150	25	800	1500	10-33
2SC4793	TO-220F	20	1	230	230	100-320
2SC4796	TO-3PF	50	6	900	1700	
2SC4799	TO-3PN	50	6	80	300	
2SC4806	TO-3P(H)IS	50	5	600	1700	3.5-7.5
2SC4820	TO-220F	30	6	450	900	
2SC4830	TO-3P(H)IS	50	6	600	1500	4-8
2SC4833	TO-220F	35	5	400	500	
2SC4834	TO-220F	45	8	400	500	
2SC4845	TO-220	40	5	120	120	
2SC4846	TO-220Fa	30	5	120	120	
2SC4847	TO-3PN	60	5	120	120	
2SC4848	TO-220	40	7	120	250	100-200
2SC4849	TO-220Fa	30	7	120	250	100-200
2SC4850	TO-3PN	60	7	120	120	
2SC4878	TO-3PF	50	10	800	1500	8-
2SC4880	TO-3PF	100	12	900	1700	-35
2SC4881	TO-220F	20	5	50	60	100-320
2SC4883	TO-220F	20	2	150	150	60-240
2SC4883A	TO-220F	20	2	180	180	60-240
2SC4886	TO-3PF	80	14	150	150	50-180
2SC4895	TO-220Fa	30	5	100	120	2k-
2SC4907	TO-220F	30	6	500	600	10-30
2SC4908	TO-220F	35	3	800	900	10-30
2SC4916	TO-3P(H)IS	50	7	600	1500	8-20
2SC4923	TO-3PF	70	8	800	1500	4-8
2SC4924	TO-3PF	70	10	800	1500	4-8
2SC4927	TO-3PF	50	8		1500	-25
2SC4928	TO-3PL	150	15	800	1500	-38
2SC494	TO-220F	30	4	550	1200	10-
2SC4941	TO-3PF	65	6	800	1500	15-
2SC4953	TO-220F	30	3	400	500	8-40
2SC4960	TO-3PFa	40	1	800	900	3-

2SC4962	TO-3PF	50	6		1700	-25
2SC4963	TO-3PF	50	8		1700	-25
2SC4980	TO-220F	25	5	100	150	70-
2SC4981	TO-220F	25	7	100	150	70-
2SC4982	TO-220F	25	10	100	150	70-
2SC5002	TO-3PF	80	7	800	1500	8-
2SC5003	TO-3PF	80	7	800	1500	8-
2SC5027	TO-220F	1.3	0.1	300	300	30-200
2SC5042	TO-3PF	60	7	800	1600	15-25
2SC5048	TO-3P(H)IS	50	12	600	1500	10-30
2SC5071	TO-3PN	100	12	400	500	10-30
2SC508	TO-66	25	4	60	180	20-
2SC5099	TO-3PF	60	6	80	120	50-180
2SC5100	TO-3PF	75	8	120	160	50-180
2SC5101	TO-3PF	80	10	140	200	50-180
2SC5124	TO-3PF	100	10	800	1500	4-9
2SC5128	TO-3P(H)IS	40	5	500	800	15-
2SC5128	TO-220	40	5	500	800	15-
2SC5129	TO-3P(H)IS	50	10	600	1500	10-30
2SC5130	TO-220F	30	5	400	600	10-30
2SC5143	TO-3P(H)IS	50	10	700	1700	8-25
2SC5147	TO-220F	2	0.1	300	300	60-200
2SC5148	TO-3P(H)IS	50	8	600	1500	8-25
2SC5149	TO-3P(H)IS	50	8	600	1500	8-25
2SC515	TO-66	6	0.1	300	300	30-150
2SC5150	TO-3P(H)IS	50	10	700	1700	10-28
2SC5171	TO-220F	2	2	180	180	100-320
2SC5174	TO-220	1.8	1	230	230	100-320
2SC5196	TO-3PN	60	6	80	80	55-160
2SC5197	TO-3PN	80	8	120	120	55-160
2SC5198	TO-3PN	100	10	140	140	55-160
2SC5199	TO-3PL	120	12	160	160	55-160
2SC5200	TO-3PL	150	15	230	230	55-160
2SC5239	TO-220	50	3	550	900	10-30
2SC5241	TO-220F	30	5	450	600	10-
2SC5242	TO-3PN	130	15	230	230	55-160
2SC5244	TO-3PL	200	30		1500	5-12
2SC5248	TO-220Fa	20	1.5	160	160	60-200
2SC5249	TO-220F	35	3	600	600	20-40
2SC5250	TO-3PF	50	8		1500	6-25

2SC5252	TO-3P(H)IS	50	15	800	1500	8-35
2SC5265	TO-220F	30	8	600	1200	30-50
2SC5271	TO-220F	30	5	200	300	10-30
2SC5280	TO-3P(H)IS	50	8	600	1500	10-35
2SC5281	TO-3PF		10	500	800	
2SC5287	TO-3PN	80	5	550	900	10-25
2SC5296	TO-3PF	60	8	800	1500	15-25
2SC5297	TO-3PF	60	8	800	1500	20-30
2SC5299	TO-3PF	70	10	800	1500	20-30
2SC5305	TO-220F	35	6	600	1200	30-50
2SC5339	TO-3P(H)IS	50	7	600	1500	10-30
2SC5352	TO-3PN	80	10	400	600	20-
2SC5353	TO-220F	2	3	800	900	10-
2SC5354	TO-3PN	100	5	800	900	15-
2SC5358	TO-3PN	150	15	230	230	55-160
2SC5359	TO-3PL	180	15	230	230	55-160
2SC5382	TO-220F	40	6	550	1200	10-
2SC5382	TO-220	40	6	550	1200	10-
2SC5386	TO-3P(H)IS	50	8	600	1500	15-35
2SC5387	TO-3P(H)IS	50	10	600	1200	15-35
2SC5404	TO-3P(H)IS	50	9	600	1500	10-40
2SC5407	TO-3P(H)IS	100	15	600	1700	6-14
2SC5413	TO-3PL	200	20	600	1700	7-14
2SC5416	TO-220F	25	4	450	1000	30-50
2SC5417	TO-220F	25	3	600	1200	30-50
2SC5439	TO-220F	30	8	450	1000	14-34
2SC5449	TO-3P(H)IS	50	12	700	1500	10-30
2SC5480	TO-3PF	50	14		1500	5-25
2SC5516	TO-3P(H)IS	70	20	600	1500	7-14
2SC5517	TO-3P(H)IS	40	6		1700	5-9
2SC5552	TO-3P(H)IS	65	16	600	1700	6-12
2SC5584	TO-3PL	150	20	600	1500	7-14
2SC5586	TO-3PN	80	5	550	900	
2SC5622	TO-3P(H)IS	40	6		1500	5-9
2SC5669	TO-3PN	140	15	230	250	60-160
2SC5694	TO-126	10	7	50	60	150-300
2SC5696	TO-3PF	3	12	800	1600	3-11
2SC5706	TO-251	15	5	50	80	200-560
2SC5706	TO-252	15	5	50	80	200-560
2SC5707	TO-251	15	8	50	80	200-560

2SC5707	TO-252	15	8	50	80	200-560
2SC5763	TO-220	55	7	400	700	20-50
2SC5764	TO-220F	30	7	400	700	20-50
2SC5778	TO-3PF	3	15	800	1600	4-7
2SC5802	TO-3P(H)IS	60	10	800	1500	15-48
2SC5803	TO-3P(H)IS	70	12	800	1500	5.5-8.5
2SC5885	TO-3PF	30	6		1500	5-10
2SC5887	TO-220F	30	15	50	60	180-560
2SC5895	TO-220F	15	2	60	60	80-250
2SC5902	TO-3P(H)IS	40	9		1700	5-10
2SC5949	TO-3PL	220	15	200	200	55-160
2SC5993	TO-220F	20	1.5	180	180	60-240
2SC6011	TO-3PN	160	15	200	200	50-180
2SC6011A	TO-3PN	160	15	230	230	50-180
2SC6017	TO-251	20	10	50	100	200-700
2SC6017	TO-252	20	10	50	100	200-700
2SC6082	TO-220F	2	15	50	60	200-560
2SC6090	TO-220F	2	10	700	1500	5-7
2SC6092LS	TO-220F	35	8	700	1500	5.3-7.5
2SC6093	TO-220F	25	12	800	1500	5.3-7.5
2SC6097	TO-251	15	3	60	100	300-600
2SC6097	TO-252	15	3	60	100	300-600
2SC6098	TO-251	15	2.5	80	120	300-600
2SC6098	TO-252	15	2.5	80	120	300-600
2SC6099	TO-251	15	2	100	120	300-600
2SC6099	TO-252	15	2	100	120	300-600
2SC6145	TO-3PN	160	15	230	230	40-140
2SC6145A	TO-3PN	160	15	260	260	40-140
2SC642	TO-3	50	1	700	1100	30-160
2SC643	TO-3	50	2.5	600	1100	7-
2SC643A	TO-3	50	2.5	700	1500	5-
2SC647	TO-3	50	5	80	80	40-
2SC665	TO-3	50		130	130	30-130
2SC675	TO-3	50	7	250	250	30-
2SC678	TO-3	50	7	100	100	40-
2SC681	TO-3	50	6	70	200	
2SC687	TO-3	50	5	150	150	30-
2SC782	TO-66	20	1.5	300	300	30-240
2SC783	TO-66	20	1.5	200	200	30-240
2SC789	TO-220	30	4	60	70	40-240

2SC790	TO-220	25	3	40	50	40-240
2SC792	TO-3	50	1.5	300	400	30-200
2SC793	TO-3	60	7	100	100	30-200
2SC794	TO-3	60	7	70	70	50-
2SC861	TO-3	50	1	450	450	50-
2SC867	TO-66	23	1	150	400	50-
2SC882	TO-3	25	2	150	150	
2SC895	TO-3	23.7	2.5	150	150	120-
2SC897	TO-3	60	7	150	150	60-
2SC898	TO-3	80	7	150	150	50-
2SC901	TO-3	50	5	200	200	25-
2SC9013	TO-92	0.625	0.5	20	40	64-202
2SC9014	TO-92	0.45	0.1	45	50	60-1000
2SC935	TO-3	12	2.5	300	300	8-
2SC936	TO-3	22	1	500	1000	20-
2SC937	TO-3	22	2.5	500	1200	
2SC940	TO-3	50	7.5	90	200	15-70
2SC945	TO-92	0.25	0.1	50	60	90-600
2SC945	SOT23	0.25	0.1	50	60	90-600(1mA/6V)
2SC961	TO-3	60	7	120	120	30-
2SC962	TO-3	60	7	100	100	30-
2SCR572D	TO-252	10	5	30	30	200-500
2SCR573D	TO-252	10	3	50	50	180-450
2SCR574D	TO-252	10	2	80	80	120-390
2SCR586D	TO-252	10	5	80	80	120-390