

Part #	Package	P _D (W)	I _C (A)	V _{CEO} (V)	V _{CBO} (V)	h _{FE}
2SA1001	TO-3	80	-8	-130	-130	50-200
2SA1002	TO-3	120	-12	-120	-120	50-200
2SA1003	TO-3	120	-12	-150	-150	50-200
2SA1006	TO-220	25	-1.5	-180	-180	60-320
2SA1006A	TO-220	25	-1.5	-200	-200	60-320
2SA1006B	TO-220	25	-1.5	-250	-250	60-320
2SA1007	TO-3	100	-10	-150	-150	40-320
2SA1008	TO-220	15	-2	-100	-100	40-200
2SA1009	TO-220	-15	-2	-250	-300	20-200
2SA1010	TO-220	40	-7	-100	-100	40-200
2SA1011	TO-220	25	-1.5	-160	-180	60-200
2SA1012	TO-220	25	-5	-50	-60	70-240
2SA1013	TO-92	1	-1	-160	-160	60-200
2SA1015	SOT23	0.2	-0.15	-50	-50	70-400(-2mA/-6V)
2SA1015	TO-92	0.4	-0.15	-50	-50	70-400
2SA1021	TO-126	20	-1.5	-150	-150	60-320
2SA1028	TO-3	95	-10	-100	-100	50-
2SA1037	SOT23	0.2	-0.15	-50	-60	120-560(-1mA/-6V)
2SA1040	TO-3	100	-10	-120	-120	35-200
2SA1041	TO-3	100	-15	-120	-120	35-200
2SA1042	TO-3	100	-15	-70	-70	35-200
2SA1043	TO-3	150	-30	-120	-120	35-200
2SA1044	TO-3	150	-30	-70	-70	35-200
2SA1046	TO-3	100	-15	-100	-100	3000
2SA1050	TO-3	100	-12	-140	-140	55-240
2SA1051	TO-3	150	-15	-150	-150	55-240
2SA1060	TO-3PN	60	-5	-80	-80	40-200
2SA1061	TO-3PN	70	-6	-100	-100	40-200
2SA1062	TO-3PN	80	-7	-120	-120	40-200
2SA1063	TO-3	80	-6	-120	-150	40-280
2SA1064	TO-3	100	-8	-150	-150	40-280
2SA1065	TO-3	120	-10	-150	-150	40-280
2SA1067	TO-3	100	-10	-120	-120	30-200
2SA1068	TO-3	100	-10	-150	-150	30-200
2SA1069	TO-220	30	-5	-60	-80	40-200
2SA1069A	TO-220	30	-5	-80	-80	40-200
2SA1069A-Z	TO-263	30	-5	-80	-80	40-200
2SA1069-Z	TO-263	30	-5	-60	-80	40-200
2SA1072	TO-3	120	-12	-120	-120	60-200

2SA1073	TO-3	120	-12	-160	-160	60-200
2SA1074	TO-3	150	-15	-160	-160	20-
2SA1075	MT-200	120	-12	-120	-120	60-200
2SA1076	MT-200	120	-12	-160	-160	60-200
2SA1077	TO-220	60	-10	-120	-120	60-200
2SA1078	TO-220	25	-2	-120	-120	60-350
2SA1079	TO-220	25	-2	-160	-160	60-350
2SA1080	TO-220	20	-0.5	-40	-40	100-350
2SA1093	TO-3PN	80	-8	-120	-120	55-240
2SA1094	MT-200	120	-12	-140	-140	55-240
2SA1095	MT-200	150	-15	-160	-160	55-240
2SA1096	TO-126	5	-2	-50	-70	80-220
2SA1096A	TO-126	5	-2	-60	-70	80-220
2SA1102	TO-3PN	60	-6	-80	-80	50-
2SA1103	TO-3PN	70	-7	-100	-100	50-180
2SA1104	TO-3PN	80	-8	-120	-120	50-180
2SA1105	TO-3PN	90	-9	-120	-120	50-180
2SA1106	TO-3PN	100	-10	-140	-140	30-
2SA1107	MT-200	120	-10	-150	-150	55-160
2SA1108	MT-200	120	-12	-130	-130	55-160
2SA1109	TO-3	200	-10	-180	-180	50-160
2SA1110	TO-126	1.2*	-0.5	-120	-120	65-330
2SA1111	TO-220	20	-1	-150	-150	65-330
2SA1112	TO-220	20	-1	-180	-180	65-330
2SA1116	TO-3	150	-15	-200	-200	30-
2SA1117	TO-3	200	-17	-200	-200	30-
2SA1120	TO-126	10	-5	-20	-35	100-320
2SA1125	TO-220	1.5	-0.05	-150	-150	90-450
2SA1129	TO-220	40	-7	-30	-30	40-200
2SA1133	TO-220	30	-2	-150	-200	60-240
2SA1133A	TO-220	30	-2	-180	-200	60-240
2SA1135	TO-3PN	55	-4	-80	-80	40-
2SA1141	TO-3PFa	100	-10	-115	-115	60-200
2SA1142	TO-126	10	-0.1	-180	-180	100-320
2SA1146	TO-3PN	100	-10	-140	-140	55-240
2SA1147	TO-3	150	-15	-180	-180	55-160
2SA1162	SOT23	0.15	-0.15	-50	-50	70-400(-2mA/-6V)
2SA1166	MT-200	150	-15	-150	-150	55-160
2SA1169	MT-200	150	-15	-200	-200	50-200
2SA1170	MT-200	200	-17	-200	-200	20-

2SA1173	TO-126	2	-0.05	-140	-140	90-400
2SA1179	SOT23	0.2	-0.15	-50	-55	200-400(-1mA/-6V)
2SA1180	TO-3	100	-10	-180	-180	30-
2SA1182	SOT23	0.15	-0.5	-30	-35	70-240(-0.1A/-1V)
2SA1184	TO-126	15	-1	-120	-120	80-240
2SA1185	TO-3PN	60	-7	-50	-50	60-320
2SA1186	TO-3PN	100	-10	-150	-150	50-180
2SA1187	MT-200	120	-12	-150	-150	50-180
2SA1195	TO-202	15	-1.5	-160	-160	60-200
2SA1196	TO-252	10	-0.1	-500	-400	120(TYP)
2SA1197	TO-252	8	-1	-60	-60	3K
2SA1201	SOT89	0.5	-0.8	-120	-120	80-240(0.1A/5V)
2SA1205	TO-3PN	100	-12	-50	-70	40-
2SA1209	TO-126	1	-0.14	-160	-180	100-400
2SA1214	TO-126	25	-2	-50	-60	60-320
2SA1215	MT-200	150	-15	-160	-160	50-180
2SA1216	MT-200	200	-17	-180	-180	30-180
2SA1217	TO-126	10	-3	-40	-40	80-240
2SA1220	TO-126	20	-1.2	-120	-120	60-320
2SA1220A	TO-126	20	-1.2	-160	-160	60-320
2SA1225	TO-252	1	-1.5	-160	-160	
2SA1225	TO-251	20	-1.5	-160	-160	120 (TYP)
2SA1227	TO-3PN	120	-12	-140	-140	60-320
2SA1227A	TO-3PN	120	-12	-160	-160	60-320
2SA1232	TO-3PN	100	-10	-130	-130	60-320
2SA1233	TO-252	10	-0.1	-400	-400	80(TYP)
2SA1241	TO-251	1	-2	-50	-50	70-240
2SA1242	TO-252	20	-5	-20	-20	
2SA1242	TO-251	20	-5	-20	-35	100-320
2SA1243	TO-251	20	-3	-20	-30	150(TYP)
2SA1244	TO-251	20	-5	-50	-60	70-240
2SA1249	TO-126	10	-1.5	-160	-180	100-400
2SA1250	TO-66	30	-8	-200	-200	>10
2SA1259	TO-220	30	-5	-60	-70	2000-
2SA1261	TO-220F	60	-10	-100	-100	40-200
2SA1261-Z	TO-252	60	-10	-100	-100	
2SA1262	TO-220	30	-4	-60	-60	40-
2SA1263	TO-3PN	60	-6	-80	-80	55-160
2SA1263N	TO-3PN	60	-6	-80	-80	55-160
2SA1264	TO-3PN	80	-8	-120	-120	55-160

2SA1264N	TO-3PN	80	-8	-120	-120	55-160
2SA1265	TO-3PN	100	-10	-140	-140	55-160
2SA1265N	TO-3PN	100	-10	-140	-140	55-160
2SA1266	TO-92	0.4	-0.15	-50	-50	70-400
2SA1276	TO-220	10	-3	-30	-30	70-240
2SA1277	TO-220Fa	20	-3	-30	-30	
2SA1278	TO-220Fa	25	-1.5	-160	-160	
2SA1279	TO-220Fa	30	-5	-60	-60	70-240
2SA1279	TO-220F	30	-5	-60	-60	70-240
2SA1280	TO-220Fa	25	-1.5	-150	-150	60-200
2SA1280	TO-220F	25	-1.5	-150	-150	60-200
2SA1282	TO-92	0.9	-2	-16	-20	150-800
2SA1283	TO-92	0.9	-1	-60	-60	55-300
2SA1284	TO-92	0.9	-0.5	-100	-100	55-300
2SA1288	TO-220	30	-3	-60	-80	70-280
2SA1289	TO-220	30	-5	-60	-80	70-280
2SA1290	TO-220	35	-7	-60	-80	70-280
2SA1291	TO-220	40	-10	-60	-80	70-280
2SA1292	TO-3PN	80	-15	-60	-80	70-280
2SA1293	TO-220	30	-5	-80	-100	70-240
2SA1294	TO-3PN	130	-15	-230	-230	50-140
2SA1295	MT-200	200	-17	-230	-230	50-140
2SA1301	TO-3PL	120	-12	-160	-160	55-160
2SA1302	TO-3PL	150	-15	-200	-200	55-160
2SA1303	TO-3PN	125	-14	-150	-150	50-180
2SA1304	TO-220Fa	20	-1.5	-150	-150	40-140
2SA1305	TO-220Fa	15	-3	-30	-30	70-240
2SA1306	TO-220Fa	20	-1.5	-160	-160	70-240
2SA1306A	TO-220Fa	20	-1.5	-180	-180	70-240
2SA1306B	TO-220Fa	20	-1.5	-200	-200	70-240
2SA1307	TO-220Fa	20	-5	-50	-60	70-240
2SA1308	TO-220Fa	30	-5	-80	-100	70-240
2SA1327	TO-220Fa	20	-10	-20	-50	100-320
2SA1328	TO-220	40	-12	-50	-60	70-240
2SA1329	TO-220	40	-12	-80	-80	70-240
2SA1332	TO-220Fa	20	-1.5	-160	-160	60-240
2SA1333	MT-200	150	-15	-200	-200	50-
2SA1352	TO-126	1.2	-0.1	-200	-200	40-320
2SA1355	TO-220	30	-4	-70	-70	70-280
2SA1357	TO-126	10	-5	-20	-35	100-320

2SA1358	TO-126	10	-1	-120	-120	80-240
2SA1359	TO-126	10	-3	-40	-40	80-240
2SA1360	TO-126	5	-0.05	-150	-150	80-240
2SA1379	TO-252	10	-0.8	-600	-600	18(TYP)
2SA1381	TO-126	1.2	-0.1	-300	-300	40-120
2SA1383	TO-220	10	-0.1	-180	-180	100-320
2SA1385	TO-251	10	-5	-60	-60	100-400
2SA1385Z	TO-252	10	-5	-60	-60	100-400
2SA1386	TO-3PN	130	-15	-160	-160	50-180
2SA1386A	TO-3PN	130	-15	-180	-180	50-180
2SA1387	TO-220Fa	20	-5	-50	-60	150-400
2SA1388	TO-220Fa	25	-5	-80	-100	70-240
2SA1389	MT-200	120	-12	-160	-160	60-200
2SA1395	TO-220Fa	15	-2	-100	-100	40-200
2SA1396	TO-220Fa	30	-10	-100	-100	40-200
2SA1400	TO-251	10	-0.5	-400	-400	30-200
2SA1400Z	TO-252	10	-0.5	-400	-400	30-200
2SA1401	TO-252	10	-5	-60	-60	250(TYP)
2SA1412	TO-251	10	-2	-400	-400	40-120
2SA1412Z	TO-252	10	-2	-400	-400	40-120
2SA1413	TO-251	2	-2	-600	-600	30-120
2SA1413Z	TO-252	2	-2	-600	-600	30-120
2SA1440	TO-220Fa	15	-3	-60	-100	100-400
2SA1441	TO-220Fa	25	-5	-60	-100	100-400
2SA1442	TO-220Fa	30	-7	-60	-100	100-400
2SA1443	TO-220Fa	30	-10	-60	-100	100-400
2SA1444	TO-220Fa	30	-15	-60	-100	100-400
2SA1451	TO-220Fa	30	-12	-50	-60	70-240
2SA1451A	TO-220F	30	-12	-50	-60	70-240
2SA1452	TO-220Fa	30	-12	-80	-80	70-240
2SA1469	TO-220F	20	-5	-60	-80	70-280
2SA1470	TO-220F	25	-7	-60	-80	70-280
2SA1471	TO-220F	30	-10	-60	-80	70-280
2SA1488	TO-220F	25	-4	-60	-60	40-
2SA1488A	TO-220F	25	-4	-80	-80	40-
2SA1489	TO-3PN	80	-6	-80	-80	50-
2SA1490	TO-3PN	80	-8	-120	-120	50-
2SA1491	TO-3PN	100	-10	-140	-140	50-
2SA1492	TO-3PN	130	-15	-180	-180	50-180
2SA1493	MT-200	150	-15	-200	-200	50-180

2SA1494	MT-200	200	-17	-200	-200	50-180
2SA1495	TO-252	15	-0.6	-600	-600	30-120
2SA1507	TO-126	10	-1.5	-160	-180	100-400
2SA1513	TO-3PF	60	-15	-60	-100	100-400
2SA1516	TO-3PN	130	-12	-180	-180	55-180
2SA1535	TO-220Fa	15	-1	-150	-150	90-330
2SA1535A	TO-220Fa	15	-1	-180	-180	90-330
2SA1546	TO-126	7	-0.1	-250	-250	60-320
2SA1550	TO-252	15	-0.5	-400	-400	45(TYP)
2SA1552	TO-251	15	-1.5	-160	-180	100-400
2SA1552	TO-252	15	-1.5	-160	-180	100-400
2SA1553	TO-3PL	150	-15	-230	-230	55-160
2SA1567	TO-220F	35	-12	-50	-50	50-
2SA1592	TO-251	10	-1	-100	-120	100-400
2SA1593	TO-251	15	-2	-100	-120	100-400
2SA1593	TO-252	15	-2	-100	-120	100-400
2SA1593	TO-251	15	-2	-100	-120	100-400
2SA1598	TO-220F	25	-7	-40	-60	70-
2SA1599	TO-220F	25	-10	-40	-60	70-
2SA1600	TO-220	30	-12	-40	-60	70-
2SA1600	TO-220F	30	-12	-40	-60	70-
2SA1601	TO-220F	45	-15	-40	-60	70-
2SA1606	TO-220F	15	-1.5	-160	-180	60-200
2SA1615	TO-251	15	-10	-20	-30	200-600
2SA1615-Z	TO-252	15	-10	-20	-30	200-600
2SA1633	TO-3PN	100	-10	-150	-150	60-320
2SA1634	TO-220	40	-4	-80	-80	60-320
2SA1635	TO-220Fa	30	-4	-80	-80	60-320
2SA1640	TO-220F	40	-7	-30	-30	100-
2SA1641	TO-251	10	-8	-20	-25	100-400
2SA1643	TO-220F	25	-7	-35	-50	50-
2SA1644	TO-220	35	-5	-100	-150	100-400
2SA1645	TO-220	35	-7	-100	-150	100-400
2SA1645-Z	TO-263	35	-14	-100	-150	100-400
2SA1646	TO-220	40	-10	-100	-150	100-400
2SA1646-Z	TO-263	40	-10	-100	-150	100-400
2SA1647	TO-251	18	-5	-100	-150	100-400
2SA1647-Z	TO-252	18	-5	-100	-150	100-400
2SA1648	TO-251	18	-5	-60	-100	100-400
2SA1648-Z	TO-252	18	-5	-60	-100	100-400

2SA1649	TO-251	15	-10	-30	-40	100-400
2SA1649-Z	TO-252	15	-10	-30	-40	100-400
2SA1651	TO-220Fa	25	-7	-100	-150	100-400
2SA1657	TO-220F	20	-1.5	-150	-150	40-140
2SA1658	TO-220F	15	-3	-30	-30	70-240
2SA1659	TO-220F	20	-1.5	-160	-160	70-240
2SA1659A	TO-220F	20	-1.5	-180	-180	70-240
2SA1664	SOT89	0.5	-0.8	-30	-35	100-320(-0.1A/-1V)
2SA1667	TO-220F	25	-2	-150	-150	60-
2SA1668	TO-220F	25	-2	-200	-200	60-
2SA1670	TO-3PF	60	-6	-80	-80	50-
2SA1671	TO-3PF	75	-8	-120	-120	50-180
2SA1672	TO-3PF	80	-10	-140	-140	50-180
2SA1673	TO-3PF	85	-15	-180	-180	50-180
2SA1679	TO-220F	25	-5	-40	-60	70-
2SA1693	TO-3PN	60	-6	-80	-80	50-180
2SA1694	TO-3PN	80	-8	-120	-120	50-180
2SA1695	TO-3PN	100	-10	-140	-140	50-180
2SA1700	TO-252	10	-0.2	-400	-400	60-200
2SA1700	TO-251	10	-0.2	-400	-400	60-200
2SA1700-Z	TO-252	10	-0.2	-400	-400	60-200
2SA1718	TO-220F	20	-5	-100	-100	2K-20K
2SA1725	TO-220F	30	-6	-80	-80	50-180
2SA1726	TO-220	50	-6	-80	-80	50-180
2SA1731	TO-251	15	-5	-40	-50	70-280
2SA1731	TO-252	15	-5	-40	-50	70-280
2SA1732	TO-251	15	-5	-40	-50	70-280
2SA1732	TO-252	15	-5	-40	-50	70-280
2SA1741	TO-220F	25	-5	-60	-100	100-400
2SA1742	TO-220	30	-7	-60	-100	100-400
2SA1744	TO-220F	30	-15	-60	-100	100-400
2SA1746	TO-3PF	60	-12	-50	-70	50-
2SA1757	TO-220Fa	25	-5	-60	-100	160-320
2SA1758	TO-220Fa	30	-12	-60	-100	60-320
2SA1771	TO-220F	30	-12	-80	-80	100-320
2SA1772	TO-251	15	-1	-400	-400	40-200
2SA1772	TO-252	15	-1	-400	-400	40-200
2SA1773	TO-251	1	-2	-400	-400	40-200
2SA1773	TO-252	1	-2	-400	-400	40-200

2SA1788	TO-3PN	80	-8	-120	-120	60-320
2SA1789	TO-3PN	80	-12	-60	-60	60-320
2SA1798	TO-126	10	-8	-20	-25	100-400
2SA1801	TO-126	1.5	-0.3	-120	-120	40-240
2SA1803	TO-3PF	55	-6	-80	-80	55-160
2SA1804	TO-3PF	70	-8	-120	-120	55-160
2SA1805	TO-3PF	80	-10	-140	-140	55-160
2SA1811	TO-92	0.8	-0.5	-30	-35	100-300
2SA1822	TO-220	25	-1	-400	-400	30-100
2SA1837	TO-220F	20	-1	-230	-230	100-320
2SA1859	TO-220F	20	-2	-150	-150	60-240
2SA1859A	TO-220F	20	-2	-180	-180	60-240
2SA1860	TO-3PF	80	-14	-150	-150	50-180
2SA1869	TO-220F	10	-3	-50	-50	70-240
2SA1878	TO-220F	25	-5	-80	-80	70-
2SA1879	TO-220F	25	-7	-80	-80	70-
2SA1880	TO-220F	25	-10	-80	-80	70-
2SA1887	TO-220Fa	25	-10	-50	-80	120-400
2SA1887	TO-220F	25	-10	-50	-80	120-400
2SA1889	TO-126	1.4	-0.2	-200	-200	60-200
2SA1907	TO-3PF	60	-6	-80	-80	50-180
2SA1908	TO-3PF	75	-8	-120	-120	50-180
2SA1909	TO-3PF	80	-10	-140	-140	50-180
2SA1930	TO-220F	20	-2	-180	-180	100-320
2SA1939	TO-3PN	60	-6	-80	-80	55-160
2SA1940	TO-3PN	80	-8	-120	-120	55-160
2SA1941	TO-3PN	100	-10	-140	-140	55-160
2SA1942	TO-3PL	120	-12	-160	-160	55-160
2SA1943	TO-3PL	150	-15	-230	-230	55-160
2SA1952	TO-252	1	-5	-60	-100	120-270
2SA1962	TO-3PN	130	-15	-230	-230	55-160
2SA1964	TO-220Fa	20	-1.5	-160	-160	60-200
2SA1986	TO-3PN	150	-15	-230	-230	55-160
2SA1987	TO-3PL	180	-15	-230	-230	55-160
2SA1988	TO-3PN	100	-7	-200	-200	70-200
2SA2004	TO-220	20	-8	-60	-60	30-
2SA2022	TO-220	18	-7	-50	-50	150-300
2SA2023	TO-126	10	-5	-60	-80	110-200
2SA2031	TO-3PN	140	-15	-230	-250	60-160

2SA2037	TO-126	10	-7	-50	-50	150-300
2SA2039	TO-251	15	-5	-50	-50	200-560
2SA2039	TO-252	15	-5	-50	-50	200-560
2SA2040	TO-251	15	-8	-50	-50	200-560
2SA2040	TO-252	15	-8	-50	-50	200-560
2SA2057	TO-220F	20	-3	-60	-60	120-320
2SA2062	TO-3PN	110	-10	-140	-160	60-160
2SA2063	TO-3PN	130	-12	-160	-180	60-160
2SA2099	TO-220AB	25	-10	-50	-50	200-560
2SA2120	TO-3PN	200	-12	-200	-200	55-160
2SA2121	TO-3PL	220	-15	-200	-200	55-160
2SA2126	TO-251	15	-3	-50	-50	200-560
2SA2126	TO-252	15	-3	-50	-50	200-560
2SA2140	TO-220F	20	-1.5	-180	-180	60-240
2SA2151	TO-3PN	160	-15	-200	-200	50-180
2SA2151A	TO-3PN	160	-15	-230	-230	50-180
2SA2169	TO-251	20	-10	-50	-50	200-560
2SA2169	TO-252	20	-10	-50	-50	200-560
2SA2210	TO-220F	30	-20	-50	-50	150-450
2SA2222S	TO-220F	25	-10	-50	-50	150-450
2SA2223	TO-3PN	160	-15	-230	-230	40-140
2SA2223A	TO-3PN	160	-15	-260	-260	40-140
2SA473	TO-220	10	-3	-30	-30	70-240
2SA483	TO-66	20	-1.5	-150	-150	30-240
2SA489	TO-220AB	30	-4	-60	-70	40-240
2SA490	TO-220	25	-3	-40	-50	40-240
2SA505	TO-126	1	-1	-50	-60	40-240
2SA562	TO-92	0.5	-0.5	-30	-35	70-240
2SA614	TO-220	25	-3	-55	-80	40-240
2SA626	TO-3	60	-6	-70	-80	30-120
2SA627	TO-3	60	-7	-80	-100	30-120
2SA633	TO-202	10	-2	-30	-30	80-250
2SA634	TO-202	10	-3	-30	-40	40-250
2SA634	TO-220	10	-3	-30	-40	40-250
2SA635	TO-202	10	-1	-60	-60	80TY
2SA636	TO-202	10	-3	-45	-70	40-250
2SA645	TO-202	7	-0.8	-60	-70	35-300
2SA646	TO-202	7	-0.8	-80	-90	20-300

2SA647	TO-202	7	-0.8	-100	-110	20-300
2SA648	TO-3	60	-7	-120	-120	30-120
2SA649	TO-3	80	-7	-150	-150	30-120
2SA650	TO-3	100	-10	-150	-150	30-150
2SA651	TO-3	100	-10	-200	-200	30-150
2SA652	TO-66	15	-1	-100	-150	40-200
2SA653	TO-66	15	-1	-120	-150	40-200
2SA656	TO-3	50	-7	-110	-130	30-300
2SA657	TO-3	50	-7	-80	-100	30-300
2SA658	TO-3	50	-7	-50	-70	30-300
2SA663	TO-3	60	-7	-80	-100	30-200
2SA670	TO-220	25	-3	-50	-50	35-200
2SA671	TO-220	25	-3	-50	-50	35-320
2SA673	TO-92	0.4	-0.5	-35	-35	60-320
2SA673A	TO-92	0.4	-0.5	-50	-50	60-320
2SA679	TO-3	100	-12	-120	-120	40-140
2SA680	TO-3	100	-12	-100	-100	40-140
2SA698	TO-202	7	-0.8	-130	-130	
2SA699	TO-202	10	-2	-32	-40	50-220
2SA699A	TO-126	10	-2	-40	-50	50-220
2SA700	TO-220	8	-1.5	-35	-35	
2SA703	TO-202	7	-1.5	-25	-25	
2SA714	TO-3	60	-7	-100	-150	60-320
2SA715	TO-126	10	-2.5	-35	-35	60-320
2SA738	TO-126	8	-1.5	-25	-25	35-320
2SA740	TO-220	25	-1.5	-150	-150	40-140
2SA743	TO-126	8	-1	-50	-50	60-200
2SA743A	TO-126	8	-1	-80	-80	60-200
2SA744	TO-3	70	-8	-80	-80	30-
2SA745	TO-3	70	-8	-100	-100	30-
2SA745A	TO-3	70	-8	-120	-120	30-
2SA746	TO-3	100	-10	-80	-80	30-
2SA747	TO-3	100	-10	-120	-120	30-
2SA747A	TO-3	100	-10	-140	-140	30-
2SA748	TO-220	15	-2	-50	-70	50-220
2SA753	TO-3	100	-10	-110	-140	30-200
2SA754	TO-220	20	-2	-50	-50	35-320
2SA755	TO-220	20	-2	-50	-50	35-200
2SA756	TO-3	50	-6	-80	-100	25-200

2SA757	TO-3	60	-7	-90	-120	25-200
2SA758	TO-3	80	-7	-110	-130	25-200
2SA762	TO-66	23	-2	-140	-140	
2SA764	TO-66	40	-6	-60	-60	50-
2SA765	TO-66	40	-6	-80	-80	50-
2SA766	TO-66	20	-0.4	-150	-150	35-150
2SA768	TO-220	30	-4	-60	-60	40-
2SA769	TO-220	30	-4	-80	-80	40-
2SA770	TO-220	40	-6	-60	-60	40-
2SA771	TO-220	40	-6	-80	-80	40-
2SA775	TO-220	12.5	-0.7	-100	-100	50-
2SA779	TO-202	1.25	-1.5	-35	-35	60-200
2SA780	TO-202	1.25	-1	-80	-80	60-200
2SA794	TO-126	1.2	-0.5	-100	-100	90-220
2SA794A	TO-126	1.2	-0.5	-120	-120	90-220
2SA795	TO-126	10	-1	-150	-150	65-330
2SA807	TO-3	50	-6	-60	-60	20-
2SA808	TO-3	50	-6	-80	-80	20-
2SA812	SOT23	0.2	-0.1	-50	-60	90-600(-1mA/-6V)
2SA814	TO-220	15	-1	-120	-120	70-240
2SA815	TO-220	15	-1	-100	-100	70-240
2SA837	TO-3	50	-4	-90	-90	40-200
2SA839	TO-220	25	-1.5	-150	-150	40-240
2SA843	TO-220	20	-0.5	-150	-200	60-200
2SA861	TO-202		-2	-20	-20	
2SA877	TO-3	100	-10	-80	-80	30-
2SA878	TO-3	100	-10	-120	-120	30-
2SA882	TO-3	100	-7	-130	-130	20-
2SA885	TO-126	5	-1	-35	-45	85-340
2SA886	TO-126	5	-1.5	-40	-50	80-220
2SA900	TO-126	1.2	-1	-18	-20	90-470
2SA907	TO-3	150	-15	-100	-100	30-
2SA908	TO-3	150	-15	-150	-150	30-
2SA909	TO-3	150	-15	-200	-200	30-
2SA913	TO-220	15	-1	-150	-150	65-330
2SA913A	TO-220	15	-1	-180	-180	65-330
2SA914	TO-126	1	-0.05	-150	-150	90-450
2SA940	TO-220	25	-1.5	-150	-150	40-140
2SA951	TO-202	1	-0.5	-140	-140	150-
2SA957	TO-220	30	-2	-150	-150	40-

2SA958	TO-220	30	-2	-200	-200	40-
2SA959	TO-3	100	-10	-100	-100	30-200
2SA963	TO-126	10	-1.5	-40	-50	80-220
2SA968	TO-220	25	-1.5	-160	-160	70-240
2SA968A	TO-220	25	-1.5	-180	-180	70-240
2SA968B	TO-220	25	-1.5	-200	-200	70-240
2SA969	TO-66	25	-1.5	-160	-160	70-240
2SA971	TO-3	150	-15	-150	-150	30-
2SA980	TO-3	80	-8	-100	-100	30-
2SA981	TO-3	80	-8	-120	-120	30-
2SA982	TO-3	80	-8	-140	-140	30-
2SA985	TO-220	25	-1.5	-120	-120	60-320
2SA985A	TO-220	25	-1.5	-150	-150	60-320
2SAR572D	TO-252	10	-5	-30	-30	200-500
2SAR573D	TO-252	10	-3	-50	-50	180-450
2SAR574D	TO-252	10	-2	-80	-80	120-390
2SAR586D	TO-252	10	-5	-80	-80	120-390