semitron SEMICONDUCTORS

Semitronics Corp.

discrete devices

T-27-01
T-33-01

silicon transistors cont'd

silicon power transistors

Type	Polarity	Power Dissipation @ 25°C (Watts) NOTE 1	T_J (°C)	BV_{CBO} (volts)	BV_{CE-} (volts) NOTE 2	h_{FE} @ I_C (Min.)	h_{FE} @ I_C (Max.)	h_{FE} @ I_C (Amps)	$V_{CE(SAT)}$ @ I_C (volts)	$V_{CE(SAT)}$ @ I_C (Amps)	hf— NOTE 3	f— (MHz) NOTE 4	Case Style
2N339	NPN	1.0 (C)	150	55	55 (O)	—	—	—	—	—	0.9 (B)	—	TO-11
2N339A	NPN	3.0 (A)	200	60	60 (O)	20	80	—	—	—	25 (E)	10 (T)	TO-11
2N340	NPN	1.0 (C)	150	85	85 (O)	—	—	—	—	—	0.9 (B)	—	TO-11
2N340A	NPN	3.0) (A)	200	85	85 (O)	20	80	—	—	—	25 (E)	10 (T)	TO-11
2N341	NPN	1.0 (C)	150	125	80 (O)	—	—	—	—	—	0.9 (B)	—	TO-11
2N341A	NPN	3.0 (A)	200	125	125 (O)	20	80	—	—	—	25 (E)	10 (T)	TO-11
2N342	NPN	1.0 (C)	150	60	60 (O)	—	—	—	—	—	0.9 (B)	—	TO-11
2N342A	NPN	1.0 (C)	150	85	85 (O)	—	—	—	—	—	0.9 (B)	—	TO-11
2N343	NPN	1.0 (C)	150	60	60 (O)	—	—	—	—	—	0.966 (B)	—	TO-11
2N343A	NPN	1.0 (C)	150	60	60 (O)	—	—	—	—	—	0.966 (B)	—	TO-11
2N389	NPN	85 (C)	200	—	60 (R)	12	60	1.0	—	—	—	—	TO-53
2N389A	NPN	85 (C)	200	—	60 (R)	12	60	1.0	0.75	1.0	—	1.0 (T)	TO-53
2N424	NPN	85 (C)	200	—	80 (R)	12	60	1.0	—	—	—	—	TO-53
2N424A	NPN	85 (C)	200	—	80 (R)	12	60	1.0	0.75	1.0	—	1.0 (T)	TO-53
2N497	NPN	4 (C)	200	60	60 (O)	12	36	0.2	—	—	—	—	TO-5
2N497A	NPN	5 (C)	200	60	60 (O)	12	36	0.2	—	—	—	—	TO-5
2N498	NPN	4 (C)	200	100	100 (O)	12	36	0.2	—	—	—	—	TO-5
2N498A	NPN	5 (C)	200	100	100 (O)	12	36	0.2	—	—	—	—	TO-5
2N545	NPN	5 (C)	200	60	60 (O)	15	80	0.5	5.0	0.5	—	—	TO-5
2N546	NPN	5 (C)	200	30	30 (O)	15	80	0.5	3.0	0.5	—	—	TO-5
2N547	NPN	5 (C)	200	60	60 (O)	20	80	0.5	5.0	0.5	—	4.0 (T)	TO-5
2N548	NPN	5 (C)	200	30	30 (O)	20	80	0.5	3.0	0.5	—	4.0 (T)	TO-5
2N549	NPN	5 (C)	200	60	60 (O)	20	80	0.2	4.0	0.2	—	4.0 (T)	TO-5
2N550	NPN	5 (C)	200	30	30 (O)	20	80	0.2	4.0	0.2	—	4.0 (T)	TO-5
2N551	NPN	5 (C)	200	60	60 (O)	20	80	0.05	2.0	0.05	—	3.0 (T)	TO-5
2N552	NPN	5 (C)	200	30	30 (O)	20	80	0.05	2.0	0.05	—	3.0 (T)	TO-5
2N656	NPN	4 (C)	200	60	60 (O)	30	90	0.2	—	—	—	—	TO-5
2N656A	NPN	5 (C)	200	60	60 (O)	30	90	0.2	—	—	—	—	TO-5
2N657	NPN	4 (C)	200	100	100 (O)	30	90	0.2	—	—	—	—	TO-5
2N657A	NPN	5 (C)	200	100	100 (O)	30	90	0.2	—	—	—	—	TO-5
2N1015A	NPN	150 (C)	150	60	60 (V)	10	—	2.0	1.5	2.0	—	—	TO-82
2N1015B	NPN	150 (C)	150	100	100 (V)	10	—	2.0	1.5	2.0	—	—	TO-82
2N1015C	NPN	150 (C)	150	150	150 (V)	10	—	2.0	1.5	2.0	—	—	TO-82
2N1015D	NPN	150 (C)	150	200	200 (V)	10	—	2.0	1.5	2.0	—	—	TO-82
2N1015E	NPN	150 (C)	150	250	250 (V)	10	—	2.0	1.5	2.0	—	—	TO-82
2N1016	NPN	150 (C)	150	30	30 (V)	10	—	5.0	2.5	5.0	—	—	TO-82
2N1016A	NPN	150 (C)	150	60	60 (V)	10	—	5.0	2.5	5.0	—	—	TO-82
2N1016B	NPN	150 (C)	150	100	100 (V)	10	—	5.0	2.5	5.0	—	—	TO-82
2N1016C	NPN	150 (C)	150	150	150 (V)	10	—	5.0	2.5	5.0	—	—	TO-82
2N1016D	NPN	150 (C)	150	200	200 (V)	10	—	5.0	2.5	5.0	—	—	TO-82
2N1016E	NPN	150 (C)	150	250	250 (V)	10	—	5.0	2.5	5.0	—	—	TO-82
2N1079	NPN	60 (C)	200	60	60 (S)	20	80	1.0	3.0	1.0	20 (E)	10 (T)	TO-53
2N1080	NPN	60 (C)	200	60	60 (S)	20	80	2.0	5.0	2.0	20 (E)	10 (T)	TO-53
2N1208	NPN	45 (C)	200	60	60 (O)	15	—	2.0	5.0	2.0	—	—	TO-61
2N1209	NPN	45 (C)	200	45	45 (O)	20	80	2.0	5.0	2.0	—	3.0 (T)	TO-61
2N1210	NPN	30 (C)	175	60	60 (O)	15	75	2.0	2.0	2.0	—	3.0 (T)	TO-53
2N1211	NPN	30 (C)	175	80	80 (V)	15	75	2.0	2.0	2.0	—	3.0 (T)	TO-53
2N1212	NPN	45 (C)	200	60	60 (O)	12	36	1.0	5.0	1.0	—	3.0 (T)	TO-61
2N1235	NPN	85 (C)	200	120	120 (R)	12	60	1.0	5.0	1.0	—	50* (E)	TO-53
2N1250	NPN	85 (C)	200	60	60 (O)	15	—	2.0	5.0	2.0	—	—	TO-53
2N1260	NPN	85 (C)	200	120	120 (R)	12	60	1.0	10.0	1.0	—	50* (E)	TO-61
2N1445	NPN	4 (C)	200	120	120 (O)	20	80	0.2	4.0	0.2	—	75* (E)	TO-5
2N1479	NPN	5 (C)	200	60	60 (V)	20	60	0.2	1.4	0.2	—	—	TO-5
2N1480	NPN	5 (C)	200	100	100 (V)	20	60	0.2	1.4	0.2	—	—	TO-5
2N1481	NPN	5 (C)	200	60	60 (V)	35	100	0.2	1.4	0.2	—	—	TO-5
2N1482	NPN	5 (C)	200	100	100 (V)	35	100	0.2	1.4	0.2	—	—	TO-5
2N1487	NPN	75 (C)	200	60	60 (V)	15	45	0.2	3.0	1.5	—	—	TO-3
2N1488	NPN	75 (C)	200	100	100 (V)	15	45	0.2	3.0	1.5	—	—	TO-3
2N1489	NPN	75 (C)	200	60	60 (V)	25	75	1.5	1.0	1.5	—	—	TO-3
2N1490	NPN	75 (C)	200	100	100 (V)	25	75	1.5	1.0	1.5	—	—	TO-3
2N1511	NPN	75 (C)	200	60	60 (V)	4	—	6.0	7.2	6.0	—	0.3 (T)	TO-36
2N1512	NPN	75 (C)	200	100	100 (V)	7	—	6.0	6.0	6.0	—	0.3 (T)	TO-36
2N1513	NPN	75 (C)	200	60	60 (V)	7	—	6.0	6.0	6.0	—	0.3 (T)	TO-36
2N1514	NPN	75 (C)	200	100	100 (V)	—	—	—	—	—	—	0.3 (T)	TO-36
2N1616	NPN	60 (C)	175	60	60 (O)	15	75	2	2	2	—	3.0 (T)	TO-53
2N1616A	NPN	85 (C)	200	60	60 (O)	20	60	2	1	2	—	3.0 (T)	TO-61
2N1617	NPN	60 (C)	175	80	80 (V)	15	75	2	2	2	—	3.0 (T)	TO-61
2N1617A	NPN	85 (C)	200	80	70 (O)	20	60	2	1	2	—	3.0 (T)	TO-61
2N1618	NPN	60 (C)	175	100	100 (V)	15	75	2	2	2	—	3.0 (T)	TO-61
2N1618A	NPN	85 (C)	200	100	80 (O)	20	60	2	1	2	—	3.0 (T)	TO-61
2N1620	NPN	60 (C)	175	100	100 (V)	15	75	2	2	2	—	3.0 (T)	TO-53
2N1644	NPN	2 (C)	175	60	40 (R)	40	120	0.15	1.5	1.5	—	50 (T)	TO-5
2N1651	PNP	100 (C)	110	60	60 (S)	35	140	10	0.65	25	20 (E)	—	TO-41
2N1690	NPN	40 (C)	200	80	80 (O)	20	60	0.5	7.5	0.5	—	90* (E)	TO-57
2N1691	NPN	40 (C)	200	120	120 (O)	20	60	0.5	7.5	0.5	—	90* (E)	TO-57

* KHz

PDF.Support

semitron hot line

discrete devices

T-27-01
T-33-01

TOLL FREE NUMBER 800-777-3960

silicon transistors cont'd

silicon power transistors—(cont'd)

Type	Polarity	Power Dissipation @ 25°C (Watts)	T_J (°C)	BV_{CBO} (volts)	BV_{CE}— (volts)	h_{FE} @ Ic (Min.)	h_{FE} @ Ic (Max.)	h_{FE} @ Ic (Amps)	$V_{CE(SAT)}$ @ Ic (volts)	$V_{CE(SAT)}$ @ Ic (Amps)	hf—	f— (MHz)	Case Style
		NOTE 1			NOTE 2						NOTE 3	NOTE 4	
2N1700	NPN	5 (C)	200	60	60 (V)	20	80	0.1	12.5	2.5	—	0.4 (B)	TO-5
2N1702	NPN	75 (C)	200	60	60 (V)	15	60	0.8	20	5.0	—	0.3 (B)	TO-3
2N1703	NPN	75 (C)	200	60	60 (V)	15	60	0.8	—	—	—	0.3 (B)	TO-36
2N1709	NPN	15 (C)	175	75	30 (0)	7.5	75	0.35	5.0	1.0	—	175 (T)	TO-8
2N1710	NPN	15 (C)	175	60	30 (0)	4.0	100	0.35	5.0	1.0	—	140 (T)	TO-8
2N1714	NPN	20 (C)	175	90	60 (0)	20	60	0.2	2.0	0.2	—	16 (T)	TO-5
2N1715	NPN	20 (C)	175	150	100 (0)	20	60	.20	2.0	.20	—	16 (T)	TO-5
2N1716	NPN	20 (C)	175	90	60 (0)	40	120	.20	2.0	.20	—	16 (T)	TO-5
2N1717	NPN	20 (C)	175	150	100 (0)	40	120	.20	2.0	.20	—	16 (T)	TO-5
2N1718	NPN	20 (C)	175	90	60 (0)	20	60	.20	2.0	.20	—	16 (T)	TO-5
2N1719	NPN	20 (C)	175	150	100 (0)	20	60	.20	2.0	.20	—	16 (T)	TO-59
2N1720	NPN	20 (C)	175	90	60 (0)	40	120	.20	2.0	.20	—	16 (T)	TO-59
2N1721	NPN	20 (C)	175	150	100 (0)	40	120	.20	2.0	.20	—	16 (T)	TO-5
2N1722	NPN	50 (C)	175	120	80 (0)	20	90	2.0	1.0	2.0	—	10 (T)	TO-53
2N1722A	NPN	50 (C)	175	180	120 (0)	30	90	2.0	0.6	2.0	—	10 (T)	TO-53
2N1723	NPN	50 (C)	175	120	80 (0)	50	150	2.0	1.0	2.0	—	10 (T)	TO-53
2N1724	NPN	50 (C)	175	120	80 (0)	20	90	2.0	1.0	2.0	—	10 (T)	TO-61
2N1724A	NPN	50 (C)	175	180	120 (0)	30	90	2.0	0.2	2.0	—	10 (T)	TO-61
2N1725	NPN	50 (C)	175	120	80 (0)	50	150	2.0	1.0	2.0	—	10 (T)	TO-61
2N1886	NPN	20 (C)	175	60	60 (0)	20	80	0.5	5.0	1.0	—	2.0 (T)	TO-59
2N1899	NPN	125 (C)	150	140	50 (0)	10	30	10	1.0	10	—	50 (T)	MT-38
2N1900	NPN	125 (C)	150	140	50 (0)	8.0	—	10	2.0	10	—	50 (T)	MT-38
2N1901	NPN	125 (C)	150	140	50 (0)	20	60	10	1.0	10	—	50 (T)	MT-38
2N1902	NPN	125 (C)	150	140	50 (0)	10	30	10	1.0	10	—	50 (T)	TO-61
2N1903	NPN	125 (C)	150	140	50 (0)	8	—	10	2.0	10	—	50 (T)	TO-61
2N1904	NPN	125 (C)	150	140	50 (0)	20	60	10	1.0	10	—	50 (T)	TO-61
2N1936	NPN	150 (C)	175	125	60 (0)	7	50	10	0.75	10	15 (E)	4.0 (T)	TO-63
2N1937	NPN	150 (C)	175	125	80 (0)	7	50	10	0.75	10	15 (E)	4.0 (T)	TO-63
2N2018	NPN	20 (C)	175	50	50 (V)	20	60	0.5	6.0	1.0	—	2.0 (T)	TO-63
2N2019	NPN	20 (C)	175	200	200 (V)	20	60	0.5	6.0	1.0	—	2.0 (T)	MT-11
2N2020	NPN	20 (C)	175	150	125 (0)	40	90	0.5	6.0	1.0	—	3.0 (T)	MT-11
2N2021	NPN	20 (C)	175	200	140(0)	40	90	0.5	6.0	1.0	—	3.0 (T)	MT-11
2N2032	NPN	45 (C)	200	45	45 (0)	20	—	2.0	5.0	2.0	—	3.0 (T)	TO-53
2N2033	NPN	5 (C)	200	80	60 (0)	20	60	0.5	0.4	0.5	—	1.0 (T)	TO-5
2N2034	NPN	14 (C)	200	80	60 (0)	20	60	1.0	0.3	1.0	—	1.0 (T)	TO-5
2N2035	NPN	17 (C)	200	80	60 (0)	20	60	1.5	0.45	1.5	—	1.0 (T)	TO-8
2N2102	NPN	5 (C)	200	120	80 (R)	35	—	0.01	0.5	0.15	35 (E)	—	TO-5
2N2102A	NPN	1 (A)	200	120	65 (0)	40	125	0.15	0.3	0.15	30 (E)	—	TO-5
2N2109	NPN	250 (C)	175	50	50 (V)	10	—	10	1.5	10	—	—	MT-17
2N2150	NPN	30 (C)	175	125	80 (0)	20	60	1.0	1.0	1.0	20 (E)	10 (T)	MT-21
2N2151	NPN	30 (C)	175	125	80 (0)	40	120	1.0	1.0	1.0	40 (E)	10 (T)	TO-59
2N2196	NPN	2 (A)	175	80	60 (R)	30	90	0.20	2.0	0.20	30 (E)	—	MD-14
2N2197	NPN	2 (A)	175	80	60 (R)	75	200	0.20	2.0	0.20	30 (E)	—	MD-14
2N2201	NPN	1 (C)	175	120	100 (0)	25	90	0.2	1.7	0.2	30 (E)	—	TO-5
2N2202	NPN	1 (C)	175	120	100 (0)	25	90	0.2	1.7	0.2	30 (E)	—	RO-45
2N2203	NPN	1 (C)	175	120	100 (0)	25	90	0.2	1.7	0.2	30 (E)	—	MT-19
2N2204	NPN	1 (C)	175	120	100 (0)	25	90	0.2	1.7	0.2	30 (E)	—	RO-119
2N2226	NPN	150 (A)	150	50	50 (V)	100	500	9.0	3.5	9.0	50 (E)	7.0*(E)	MT-1
2N2227	NPN	150 (A)	150	100	100 (V)	100	500	9.0	3.5	9.0	50 (E)	7.0*(E)	MT-1
2N2228	NPN	150 (A)	150	150	150 (V)	100	500	9.0	3.5	9.0	50 (E)	7.0*(E)	MT-1
2N2229	NPN	150 (A)	150	200	200 (V)	100	500	9.0	3.5	9.0	50 (E)	7.0*(E)	MT-1
2N2230	NPN	150 (A)	150	50	50 (V)	350	—	9.0	3.5	9.0	100 (E)	4.0*(E)	MT-1
2N2231	NPN	150 (A)	150	100	100 (V)	350	—	9.0	3.5	9.0	100 (E)	4.0*(E)	MT-1
2N2232	NPN	150 (A)	150	150	150 (V)	350	—	9.0	3.5	9.0	100 (E)	4.0*(E)	MT-1
2N2233	NPN	150 (A)	150	200	200 (V)	350	—	9.0	3.5	9.0	100 (E)	4.0*(E)	MT-1
2N2270	NPN	5 (C)	200	60	45 (0)	30	—	0.001	0.9	0.15	50 (E)	—	TO-5
2N2305	NPN	75 (C)	200	60	60 (V)	15	60	0.8	1.2	0.6	—	—	TO-3
2N2405	NPN	5 (C)	—	120	90 (0)	60	200	0.15	0.5	0.15	50 (E)	—	TO-5
2N2594	NPN	5 (C)	200	80	90 (R)	50	150	0.1	1.0	0.2	15 (E)	40 (T)	TO-5
2N2632	NPN	40 (C)	175	90	60 (0)	40	120	1.0	0.25	1.0	40 (E)	20 (T)	TO-62
2N2633	NPN	40 (C)	175	120	80 (0)	40	120	1.0	0.25	1.0	40 (E)	20 (T)	TO-62
2N2634	NPN	40 (C)	175	150	100 (0)	40	120	1.0	0.25	1.0	40 (E)	20 (T)	TO-62
2N2657	NPN	1.25 (A)	200	80	60 (0)	40	120	1.0	0.5	1.0	—	20 (T)	TO-5
2N2658	NPN	1.25 (A)	200	100	80 (0)	40	120	1.0	0.5	1.0	—	20 (T)	TO-5
2N2697	NPN	18 (C)	200	80	60 (0)	40	120	1.0	0.5	1.0	—	20 (T)	MT-9
2N2698	NPN	18 (C)	200	100	80 (0)	40	120	1.0	0.5	1.0	—	20 (T)	MT-9
2N2726	NPN	1 (A)	200	200	200 (R)	30	90	0.2	2.0	0.2	30 (E)	15 (T)	TO-5
2N2727	NPN	1 (A)	200	200	200 (R)	75	150	0.2	2.0	0.2	75 (E)	15 (T)	TO-5
2N2811	NPN	70 (J)	200	80	60 (0)	20	60	5	0.5	5	20 (E)	15 (T)	TO-61
2N2812	NPN	70 (J)	200	80	60 (0)	40	120	5	0.5	5	40 (E)	15 (T)	TO-61
2N2813	NPN	70 (J)	200	120	80 (0)	20	60	5	0.5	5	20 (E)	15 (T)	TO-61
2N2814	NPN	70 (J)	200	120	80 (0)	40	120	5	0.5	5	40 (E)	15 (T)	TO-61
2N2866	NPN	40 (C)	175	120	80 (0)	20	60	0.5	0.75	1.0	—	10 (T)	TO-59
2N2867	NPN	40 (C)	175	120	80 (0)	40	120	0.5	0.75	1.0	—	10 (T)	TO-59
2N2875	PNP	20 (C)	200	60	50 (0)	15	60	0.5	1.5	0.5	20 (E)	25 (E)	TO-59

* KHz
† with heat sink

SEMICONDUCTORS

Semitronics Corp.

discrete devices

T-27-01

T-33-01

silicon transistors cont'd

silicon power transistors—(cont'd)

Type	Polarity	Power Dissipation @ 25°C (Watts) NOTE 1	T_J (°C)	BV_{CBO} (volts)	BV_{CE-} (volts) NOTE 2	h_{FE} @ I_C (Min.)	h_{FE} @ I_C (Max.)	h_{FE} @ I_C (Amps)	$V_{CE(SAT)}$ @ I_C (volts)	$V_{CE(SAT)}$ @ I_C (Amps)	hf— NOTE 3	f— (MHz) NOTE 4	Case Style
2N2877	NPN	53 (C)	100	80	60 (O)	20	60	1.0	0.25	1.0	20 (E)	30 (T)	TO-59
2N2878	NPN	53 (C)	100	80	60 (O)	40	120	1.0	0.25	1.0	40 (E)	50 (T)	TO-59
2N2879	NPN	53 (C)	100	100	80 (O)	20	60	1.0	0.25	1.0	20 (E)	30 (T)	TO-59
2N2880	NPN	53 (C)	100	100	80 (O)	40	120	1.0	0.25	1.0	40 (E)	50 (T)	TO-59
2N2951	NPN	3.0 (C)	175	60	60 (S)	20	150	0.01	0.5	0.15	—	200 (T)	TO-5
2N2952	NPN	1.8 (C)	175	60	60 (S)	20	150	0.01	0.5	0.15	—	200 (T)	TO-18
2N2983	NPN	1.0 (A)	175	155	80 (O)	20	60	0.5	0.6	1.0	20 (E)	60 (T)	TO-5
2N2984	NPN	1.0 (A)	175	185	120 (O)	20	60	0.5	0.8	0.2	20 (E)	60 (T)	TO-5
2N2985	NPN	1.0 (A)	175	155	80 (O)	40	120	0.5	0.8	0.2	40 (E)	60 (T)	TO-5
2N2986	NPN	1.0 (A)	175	185	120 (O)	40	120	0.5	0.8	0.2	40 (E)	60 (T)	TO-5
2N2987	NPN	1.0 (A)	200	95	80 (O)	25	75	0.2	0.8	0.2	25 (E)	30 (T)	TO-5
2N2988	NPN	1.0 (A)	200	155	100 (O)	25	75	0.2	0.8	0.2	25 (E)	30 (T)	TO-5
2N2989	NPN	1.0 (A)	200	95	80 (O)	60	120	0.2	0.8	0.2	50 (E)	30 (T)	TO-5
2N2990	NPN	1.0 (A)	200	155	100 (O)	60	120	0.2	0.8	0.2	50 (E)	30 (T)	TO-5
2N2991	NPN	2.0 (A)	200	95	80 (O)	25	75	0.2	0.8	0.2	25 (E)	30 (T)	MT-13
2N2992	NPN	2.0 (A)	200	155	100 (O)	20	—	0.2	0.8	0.2	25 (E)	30 (T)	MT-13
2N2993	NPN	2.0 (A)	200	95	80 (O)	60	120	0.2	0.8	0.2	50 (E)	30 (T)	MT-13
2N2994	NPN	2.0 (A)	200	155	100 (O)	60	120	0.2	0.8	0.2	50 (E)	30 (T)	MT-13
2N2995	NPN	1.5 (A)	175	120	100 (O)	25	90	0.2	1.7	0.2	30 (E)	10 (T)	MT-20a
2N3053	NPN	5.0 (C)	200	60	40 (O)	50	250	0.15	1.4	0.15	—	100 (T)	TO-5
2N3054	NPN	25 (C)	200	90	60 (R)	250	150	0.5	1.0	0.5	25 (E)	30* (E)	TO-66
2N3055	NPN	115 (C)	200	100	70 (R)	20	70	4.0	1.1	4.0	15 (E)	20* (E)	TO-3
2N3118	NPN	1.0 (A)	200	85	60 (O)	50	275	0.025	—	—	—	250 (T)	TO-5
2N3119	NPN	1.0 (A)	200	100	80 (O)	50	200	0.10	0.5	0.10	—	250 (T)	TO-5
2N3139	NPN	20 (C)	200	65	65 (O)	10	—	1.0	—	—	—	100 (T)	TO-62
2N3140	NPN	20 (C)	200	65	65 (O)	10	—	1.0	—	—	—	100 (T)	TO-62
2N3141	NPN	20 (C)	200	140	140 (O)	10	—	1.0	—	—	—	100 (T)	TO-62
2N3142	NPN	25 (C)	200	65	65 (O)	10	—	1.0	—	—	—	100 (T)	MT-46
2N3143	NPN	25 (C)	200	140	140 (O)	10	—	1.0	—	—	—	100 (T)	MT-46
2N3144	NPN	25 (C)	200	65	65 (O)	10	—	1.0	—	—	—	100 (T)	MT-46
2N3145	NPN	25 (C)	200	140	140 (O)	10	—	1.0	—	—	—	100 (T)	MT-46
2N3149	NPN	300 (C)	200	80	80 (O)	10	—	50	1.5	50	—	0.1 (T)	TO-114
2N3150	NPN	300 (C)	200	100	100 (O)	10	—	50	1.5	50	—	0.1 (T)	TO-114
2N3151	NPN	300 (C)	200	150	150 (O)	10	—	50	1.5	50	—	0.1 (T)	TO-114
2N3244	PNP	1.0 (A)	200	40	40 (O)	50	150	0.5	0.3	0.15	—	175 (T)	TO-5
2N3245	PNP	1.0 (A)	200	50	50 (O)	30	90	0.5	0.35	0.15	—	150 (T)	TO-5
2N3252	NPN	1.0 (A)	200	60	30 (O)	30	90	0.5	0.3	0.15	—	200 (T)	TO-5
2N3253	NPN	1.0 (A)	200	75	40 (O)	25	75	0.375	0.35	0.15	—	175 (T)	TO-5
2N3418	NPN	1.0 (C)	100	85	60 (O)	20	60	1.0	0.25	1.0	—	40 (T)	TO-5
2N3419	NPN	1.0 (C)	100	125	80 (O)	20	60	1.0	0.25	1.0	—	40 (T)	TO-5
2N3420	NPN	1.0 (C)	100	85	60 (O)	40	120	1.0	0.25	1.0	—	40 (T)	TO-5
2N3421	NPN	1.0 (C)	100	125	80 (O)	40	120	1.0	0.25	1.0	—	40 (T)	TO-5
2N3441	NPN	25 (C)	200	160	140 (O)	20	80	0.5	6.0	2.7	15 (E)	0.2 (T)	TO-66
2N3442	NPN	100 (C)	200	160	140 (O)	20	70	3.0	5.0	10	12 (E)	80* (T)	TO-3
2N3444	NPN	1.0 (A)	200	80	50 (O)	20	60	0.5	0.35	0.15	—	150 (T)	TO-5
2N3467	PNP	1.0 (A)	200	40	40 (O)	40	120	0.5	0.3	0.15	—	175 (T)	TO-5
2N3469	NPN	1.25 (A)	200	35	25 (O)	100	350	0.5	0.5	1.0	100 (E)	20 (T)	TO-5
2N3485	PNP	2.0 (C)	200	60	40 (O)	40	120	0.15	0.4	0.15	—	200 (T)	TO-46
2N3485A	PNP	2.0 (C)	200	60	60 (O)	40	120	0.15	0.4	0.15	—	200 (T)	TO-46
2N3486	PNP	2.0 (C)	200	60	40 (O)	100	300	0.15	0.4	0.15	—	200 (T)	TO-46
2N3486A	PNP	2.0 (C)	200	60	60 (O)	100	300	0.15	0.4	0.15	—	200 (T)	TO-46
2N3506	NPN	1.0 (A)	200	60	40 (O)	40	200	1.5	1.0	1.5	—	60 (T)	TO-5
2N3507	NPN	1.0 (A)	200	80	50 (O)	30	150	1.5	1.0	1.5	—	60 (T)	TO-5
2N3597	NPN	100 (C)	200	60	40 (O)	40	120	10	0.5	10	75 (E)	30 (T)	TO-63
2N3598	NPN	100 (C)	200	80	60 (O)	40	120	10	0.5	10	75 (E)	30 (T)	TO-63
2N3599	NPN	100 (C)	200	100	80 (O)	40	120	10	0.5	10	75 (E)	30 (T)	TO-63
2N3659	NPN	4.0 (C)	200	220	170 (O)	20	—	0.10	—	—	20 (E)	50 (T)	TO-5
2N3660	PNP	5.0 (C)	200	40	30 (O)	25	100	0.5	1.2	0.5	—	25 (T)	TO-5
2N3661	PNP	5.0 (C)	200	60	50 (O)	25	100	0.5	1.2	0.5	—	25 (T)	TO-5
2N3665	NPN	5.0 (C)	200	120	80 (O)	40	120	0.15	0.5	0.15	—	60 (T)	TO-5
2N3666	NPN	5.0 (C)	200	120	80 (O)	100	300	0.15	0.5	0.15	—	60 (T)	TO-5
2N3675	NPN	8.8 (C)	200	90	55 (O)	12	60	1.0	0.8	1.0	—	1.0 (T)	TO-5
2N3676	NPN	8.8 (C)	200	90	90 (O)	12	60	1.0	0.8	1.0	—	1.0 (T)	TO-5
2N3714	NPN	150 (C)	200	100	80 (O)	25	75	1.0	1.0	5.0	25 (E)	30* (E)	TO-3
2N3715	NPN	150 (C)	200	80	60 (O)	50	150	1.0	0.8	5.0	25 (E)	30* (E)	TO-3
2N3716	NPN	150 (C)	200	100	80 (O)	50	150	1.0	0.8	5.0	25 (E)	30* (E)	TO-3
2N3744	NPN	30 (C)	200	60	40 (O)	20	60	1.0	0.25	1.0	20 (E)	30 (T)	TO-59
2N3745	NPN	30 (C)	200	80	60 (O)	20	60	1.0	0.25	1.0	20 (E)	30 (T)	TO-59
2N3746	NPN	30 (C)	200	100	80 (O)	20	60	1.0	0.25	1.0	20 (E)	30 (T)	TO-59
2N3747	NPN	30 (C)	200	60	40 (O)	40	120	1.0	0.25	1.0	40 (E)	40 (T)	TO-59
2N3748	NPN	30 (C)	200	80	60 (O)	40	120	1.0	0.25	1.0	40 (E)	40 (T)	TO-59
2N3749	NPN	30 (C)	200	100	80 (O)	40	120	1.0	0.25	1.0	40 (E)	40 (T)	TO-59
2N3750	NPN	30 (C)	200	60	40 (O)	100	300	1.0	0.25	1.0	100 (E)	50 (T)	TO-59
2N3751	NPN	30 (C)	200	80	60 (O)	100	300	1.0	0.25	1.0	100 (E)	50 (T)	TO-59
2N3752	NPN	30 (C)	200	100	80 (O)	100	300	1.0	0.25	1.0	100 (E)	50 (T)	TO-59

* KHz

semitron hot line

TOLL FREE NUMBER 800-777-3960

silicon transistors cont'd

silicon power transistors—(cont'd)

Type	Polarity	Power Dissipation @ 25°C (Watts)	T_J (°C)	BV_{CBO} (volts)	BV_{CE}— (volts)	h_{FE} @ I_C (Min.)	(Max.)	(Amps)	$V_{CE(SAT)}$ @ I_C (volts)	(Amps)	hf—	f— (MHz)	Case Style
		NOTE 1			NOTE 2						NOTE 3	NOTE 4	
2N3766	NPN	20 (C)	175	80	60 (O)	40	160	0.5	2.5	1.0	40 (E)	15 (T)	TO-66
2N3767	NPN	20 (C)	175	100	80 (O)	40	160	0.5	2.5	1.0	40 (E)	15 (T)	TO-66
2N3771	NPN	150 (C)	200	50	40 (O)	15	60	15	2.0	15	40 (E)	0.2 (T)	TO-3
2N3772	NPN	150 (C)	200	100	60 (O)	15	60	10	1.4	10	40 (E)	0.2 (T)	TO-3
2N3773	NPN	150 (C)	200	160	140 (O)	15	60	8	1.4	8	40 (E)	0.2 (T)	TO-3
2N3916	NPN	5.0 (C)	150	150	150 (O)	40	200	0.15	5.0	0.15	30 (E)	50 (T)	TO-5/c†
2N3917	NPN	20 (C)	150	80	40 (O)	30	120	1.0	1.2	1.0	15 (E)	50 (T)	TO-3
2N3918	NPN	20 (C)	150	80	40 (O)	100	300	1.0	1.2	1.0	30 (E)	50 (T)	TO-3
2N3919	NPN	15 (C)	150	120	60 (O)	40	120	2.0	1.2	10	—	80 (T)	TO-3
2N3920	NPN	15 (C)	150	120	60 (O)	100	300	2.0	1.2	10	—	80 (T)	TO-3
2N3945	NPN	5.0 (C)	200	70	50 (O)	40	250	0.15	0.5	0.15	—	60 (T)	TO-5
2N4000	NPN	1.0 (A)	200	100	80 (O)	30	120	0.5	0.3	0.5	—	40 (T)	TO-5
2N4001	NPN	1.0 (A)	200	120	100 (O)	40	120	0.5	0.3	0.5	—	40 (T)	TO-5
2N4070	NPN	115 (C)	200	100	80 (O)	40	120	5.0	1.5	5.0	40 (E)	10 (T)	TO-3
2N4071	NPN	115 (C)	200	200	150 (O)	40	120	5.0	1.5	5.0	40 (E)	10 (T)	TO-3
2N4150	NPN	5.0 (C)	—	100	80 (O)	40	120	5.0	—	—	—	15 (T)	TO-5
2N4210	NPN	100 (C)	—	80	60 (O)	20	100	10	—	—	—	10 (T)	TO-63
2N4211	NPN	100 (C)	—	100	80 (O)	20	100	10	—	—	—	10 (T)	TO-63
2N4237	PNP	5.0 (C)	175	50	40 (O)	40	160	0.5	2.5	1.0	40 (E)	10 (T)	TO-5
2N4238	PNP	5.0 (C)	175	80	60 (O)	40	160	0.5	2.5	1.0	40 (E)	10 (T)	TO-5
2N4239	PNP	5.0 (C)	175	100	60 (O)	40	160	0.5	2.5	1.0	40 (E)	10 (T)	TO-5
2N4242	PNP	105 (A)	—	80	60 (O)	40	80	5.0	—	—	—	500* (T)	TO-3
2N4243	PNP	105 (A)	—	60	45 (O)	40	80	5.0	—	—	—	500* (T)	TO-3
2N4244	PNP	105 (A)	—	40	30 (O)	40	80	5.0	—	—	—	500* (T)	TO-3
2N4245	PNP	105 (A)	—	80	60 (O)	60	120	5.0	—	—	—	500* (T)	TO-3
2N4246	PNP	105 (A)	—	60	45 (O)	60	120	5.0	—	—	—	500* (T)	TO-3
2N4247	PNP	105 (A)	—	40	30 (O)	60	120	5.0	—	—	—	500* (T)	TO-3
2N4271	NPN	5.0 (C)	—	175	140 (O)	20	140	0.2	—	—	—	20 (T)	TO-5
2N4272	NPN	5.0 (C)	—	175	140 (O)	20	140	1.0	—	—	—	10 (T)	TO-5
2N4273	NPN	25 (C)	—	175	140 (O)	20	140	1.0	—	—	—	10 (T)	TO-66
2N4300	NPN	15 (C)	—	100	80 (O)	30	120	1.0	—	—	—	30 (T)	TO-5
2N4305	NPN	1.5 (A)	—	120	80 (O)	50	150	1.0	—	—	—	—	TO-5
2N4307	NPN	1.5 (A)	—	100	60 (O)	50	150	1.0	—	—	—	—	TO-5
2N4309	NPN	1.5 (A)	—	120	80 (O)	50	150	1.0	—	—	—	—	TO-5
2N4311	NPN	1.5 (A)	—	100	60 (O)	40	120	1.0	—	—	—	—	TO-5
2N4350	NPN	7.0 (C)	—	65	40 (O)	10	200	0.35	—	—	—	300 (T)	TO-5
2N4387	PNP	20 (A)	200	40	40 (O)	25	100	0.5	—	—	—	—	TO-66
2N4388	PNP	20 (A)	200	60	20 (O)	10	200	0.1	—	—	—	500 (T)	TO-39
2N4427	NPN	3.5 (C)	—	40	120 (O)	50	150	0.5	0.2	0.5	—	50 —	TO-46
2N4862	NPN	4.0 (J)	—	140	120 (O)	50	150	0.5	0.2	0.5	—	50 —	TO-5
2N4863	NPN	4.0 (J)	—	140	120 (O)	50	150	0.5	0.2	0.5	—	50 —	TO-66
2N4864	NPN	4.0 (J)	—	140	80 (O)	10	40	70	2.5	70	—	10 —	MT-49
2N4865	NPN	200 (C)	100	100	120 (O)	10	40	70	2.5	70	—	10 —	MT-49
2N4866	NPN	200 (C)	100	140	60 (O)	100	300	2.0	1.0	5.0	4.0 (E)	—	TO-39
2N4895	NPN	4.0 (C)	200	120	60 (O)	40	120	2.0	1.0	5.0	2.0 (E)	—	TO-39
2N4896	NPN	4.0 (C)	200	120	80 (O)	40	120	2.0	1.0	5.0	2.5 (E)	—	TO-39
2N4897	NPN	4.0 (C)	200	150	40 (O)	25	100	2.5	1.0	2.5	20 (E)	4.0 (T)	TO-3
2N4913	NPN	87 (C)	200	40	60 (O)	25	100	2.5	1.0	2.5	20 (E)	4.0 (T)	TO-3
2N4914	NPN	87 (C)	200	60	40 (O)	20	80	1.0	0.4	1.0	20 (E)	4.0 (T)	TO-3
2N5067	NPN	87 (C)	200	40	60 (O)	20	80	1.0	0.4	1.0	20 (E)	4.0 (T)	TO-3
2N5068	NPN	87 (C)	200	60	80 (O)	20	80	1.0	0.4	1.0	20 (E)	4.0 (T)	TO-3
2N5069	NPN	87 (C)	200	80	80 (O)	15	—	2.0	0.85	2.0	—	50 —	TO-39
2N5147	PNP	6 (C)	50	—	80 (O)	15	—	2.0	0.85	2.0	—	50 —	TO-39
2N5148	NPN	6 (C)	50	—	80 (O)	30	—	2.0	0.85	2.0	—	60 —	TO-39
2N5150	NPN	6 (C)	50	—	80 (O)	30	—	2.0	0.85	2.0	—	60 —	TO-39
2N5151	PNP	10 (C)	50	—	80 (O)	20	—	5.0	1.5	5.0	—	60 —	TO-39
2N5152	NPN	10 (C)	50	—	80 (O)	20	—	5.0	1.5	5.0	—	60 —	TO-39
2N5153	PNP	10 (C)	50	—	80 (O)	40	—	5.0	1.5	5.0	—	70 —	TO-39
2N5154	NPN	10 (C)	50	—	80 (O)	20	—	5.0	1.5	5.0	—	60 —	TO-39
2N5218	NPN	50 (C)	—	220	200 (O)	15	120	5.0	—	—	—	40 —	TO-61
2N5250	NPN	200 —	—	125	100 (O)	15	60	40	1.0	40	—	10 —	TO-114
2N5312	PNP	3.0 (J)	200	80	80 (O)	30	90	10	1.5	10	—	30 —	TO-61
2N5314	PNP	3.0 (J)	200	100	100 (O)	30	90	10	1.5	10	—	30 —	TO-61
2N5316	PNP	3.0 (J)	200	80	80 (O)	30	90	5.0	0.6	5.0	—	30 —	TO-61
2N5318	PNP	3.0 (J)	200	100	100 (O)	30	90	5.0	0.6	5.0	—	30 —	TO-61
2N5404	PNP	1.0 —	—	80	80 (O)	20	60	2.0	0.6	2.0	—	40 —	TO-5
2N5405	PNP	1.0 —	—	100	100 (O)	20	60	2.0	0.6	2.0	—	40 —	TO-5
2N5406	PNP	1.0 —	—	80	80 (O)	40	120	2.0	0.6	2.0	—	40 —	TO-5
2N5407	PNP	1.0 —	—	100	100 (O)	40	120	2.0	0.6	2.0	—	40 —	TO-5
2N5408	PNP	3.3 —	—	80	80 (O)	20	60	2.0	0.6	2.0	—	40 —	TO-111
2N5409	PNP	3.3 —	—	100	100 (O)	20	60	2.0	0.6	2.0	—	40 —	TO-111
2N5410	PNP	3.3 —	—	80	80 (O)	40	120	2.0	0.6	2.0	—	40 —	TO-111
2N5411	PNP	3.3 —	—	100	100 (O)	40	120	2.0	0.6	2.0	—	40 —	TO-111

* KHz
† with heat sink