



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)	T _j (°C)	BV _{CEO} (volts)	BV _{CE} (volts)	h _{FE} @ I _c			V _{CE (SAT)} @ I _c		f _T (MHz)	Case Style
						(Min.)	(Max.)	(Amps)	(volts)	(Amps)		
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)	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)	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)	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
2N369	NPN	85 (C)	200	—	60 (R)	12	60	1.0	—	—	—	TO-53
2N369A	NPN	85 (C)	200	—	60 (R)	12	60	1.0	0.75	1.0	—	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	—	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	—	TO-5
2N548	NPN	5 (C)	200	30	30 (O)	20	80	0.5	3.0	0.5	—	TO-5
2N549	NPN	5 (C)	200	60	60 (O)	20	80	0.2	4.0	0.2	—	TO-5
2N550	NPN	5 (C)	200	30	30 (O)	20	80	0.2	4.0	0.2	—	TO-5
2N551	NPN	5 (C)	200	60	60 (O)	20	80	0.05	2.0	0.05	—	TO-5
2N552	NPN	5 (C)	200	30	30 (O)	20	80	0.05	2.0	0.05	—	TO-5
2N556	NPN	4 (C)	200	60	60 (O)	30	90	0.2	—	—	—	TO-5
2N556A	NPN	5 (C)	200	60	60 (O)	30	90	0.2	—	—	—	TO-5
2N557	NPN	4 (C)	200	100	100 (O)	30	90	0.2	—	—	—	TO-5
2N557A	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	—	TO-53
2N1080	NPN	60 (C)	200	60	60 (S)	20	80	2.0	5.0	2.0	—	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	—	TO-61
2N1210	NPN	30 (C)	175	60	60 (O)	15	75	2.0	2.0	2.0	—	TO-53
2N1211	NPN	30 (C)	175	80	80 (V)	15	75	2.0	2.0	2.0	—	TO-53
2N1212	NPN	45 (C)	200	60	60 (O)	12	36	1.0	5.0	1.0	—	TO-61
2N1235	NPN	85 (C)	200	120	120 (R)	12	60	1.0	5.0	1.0	—	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	—	TO-61
2N1445	NPN	4 (C)	200	120	120 (O)	20	80	0.2	4.0	0.2	—	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	—	TO-36
2N1512	NPN	75 (C)	200	100	100 (V)	7	—	6.0	6.0	6.0	—	TO-36
2N1513	NPN	75 (C)	200	60	60 (V)	7	—	6.0	6.0	6.0	—	TO-36
2N1514	NPN	75 (C)	200	100	100 (V)	7	—	6.0	6.0	6.0	—	TO-36
2N1616	NPN	60 (C)	175	60	60 (O)	15	75	2	—	—	—	TO-36
2N1616A	NPN	85 (C)	200	60	60 (O)	20	60	2	1	2	—	TO-61
2N1617	NPN	60 (C)	175	80	80 (V)	15	75	2	2	2	—	TO-61
2N1617A	NPN	85 (C)	200	80	70 (O)	20	60	2	1	2	—	TO-61
2N1618	NPN	60 (C)	175	100	100 (V)	15	75	2	2	2	—	TO-61
2N1618A	NPN	85 (C)	200	100	80 (O)	20	60	2	1	2	—	TO-61
2N1620	NPN	60 (C)	175	100	100 (V)	15	75	2	2	2	—	TO-53
2N1644	NPN	2 (C)	175	60	40 (R)	40	120	0.15	1.5	1.5	—	TO-5
2N1651	PNP	100 (C)	110	60	60 (S)	35	140	10	0.65	25	—	TO-41
2N1690	NPN	40 (C)	200	80	80 (O)	20	60	0.5	7.5	0.5	—	TO-57
2N1691	NPN	40 (C)	200	120	120 (O)	20	60	0.5	7.5	0.5	—	TO-57

* KHz

discrete devices

semitron hot line

TOLL FREE NUMBER 800-777-3960

silicon transistors cont'd

T-27-01
T-33-01

silicon power transistors — (cont'd)

Type	Polarity	Power Dissipation @ 25°C (Watts)	T _J (°C)	BV _{CEO} (volts)	BV _{CE} (volts)	h _{FE} @ I _C			V _{CE} (SAT) @ I _C		h _f —	f _T (MHz)	Case Style
						(Min.)	(Max.)	(Amps)	(volts)	(Amps)			
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 (V)	7.5	75	0.35	5.0	1.0	—	175 (T)	TO-8
2N1710	NPN	15 (C)	175	60	30 (V)	4.0	100	0.35	5.0	1.0	—	140 (T)	TO-8
2N1714	NPN	20 (C)	175	90	60 (V)	20	60	0.2	2.0	0.2	—	16 (T)	TO-5
2N1715	NPN	20 (C)	175	150	100 (V)	20	60	.20	2.0	.20	—	16 (T)	TO-5
2N1716	NPN	20 (C)	175	90	60 (V)	40	120	.20	2.0	.20	—	16 (T)	TO-5
2N1717	NPN	20 (C)	175	150	100 (V)	40	120	.20	2.0	.20	—	16 (T)	TO-5
2N1718	NPN	20 (C)	175	90	60 (V)	20	60	.20	2.0	.20	—	16 (T)	TO-5
2N1719	NPN	20 (C)	175	150	100 (V)	20	60	.20	2.0	.20	—	16 (T)	TO-59
2N1720	NPN	20 (C)	175	90	60 (V)	40	120	.20	2.0	.20	—	16 (T)	TO-59
2N1721	NPN	20 (C)	175	150	100 (V)	40	120	.20	2.0	.20	—	16 (T)	TO-5
2N1722	NPN	50 (C)	175	120	80 (V)	20	90	2.0	1.0	2.0	—	10 (T)	TO-53
2N1722A	NPN	50 (C)	175	180	120 (V)	30	90	2.0	0.6	2.0	—	10 (T)	TO-53
2N1723	NPN	50 (C)	175	120	80 (V)	50	150	2.0	1.0	2.0	—	10 (T)	TO-53
2N1724	NPN	50 (C)	175	120	80 (V)	20	90	2.0	1.0	2.0	—	10 (T)	TO-61
2N1724A	NPN	50 (C)	175	180	120 (V)	30	90	2.0	0.2	2.0	—	10 (T)	TO-61
2N1725	NPN	50 (C)	175	120	80 (V)	50	150	2.0	1.0	2.0	—	10 (T)	TO-61
2N1886	NPN	20 (C)	175	60	60 (V)	20	80	0.5	5.0	1.0	—	2.0 (T)	TO-59
2N1899	NPN	125 (C)	150	140	50 (V)	10	30	10	1.0	10	—	50 (T)	MT-38
2N1900	NPN	125 (C)	150	140	50 (V)	8.0	—	10	2.0	10	—	50 (T)	MT-38
2N1901	NPN	125 (C)	150	140	50 (V)	20	60	10	1.0	10	—	50 (T)	MT-38
2N1902	NPN	125 (C)	150	140	50 (V)	10	30	10	1.0	10	—	50 (T)	TO-61
2N1903	NPN	125 (C)	150	140	50 (V)	8	—	10	2.0	10	—	50 (T)	TO-61
2N1904	NPN	125 (C)	150	140	50 (V)	20	60	10	1.0	10	—	50 (T)	TO-61
2N1936	NPN	150 (C)	175	125	60 (V)	7	50	10	0.75	10	15 (E)	4.0 (T)	TO-63
2N1937	NPN	150 (C)	175	125	80 (V)	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 (V)	40	90	0.5	6.0	1.0	—	3.0 (T)	MT-11
2N2021	NPN	20 (C)	175	200	140 (V)	40	90	0.5	6.0	1.0	—	3.0 (T)	MT-11
2N2032	NPN	45 (C)	200	45	45 (V)	20	—	2.0	5.0	2.0	—	3.0 (T)	TO-53
2N2033	NPN	5 (C)	200	80	60 (V)	20	60	0.5	0.4	0.5	—	1.0 (T)	TO-5
2N2034	NPN	14 (C)	200	80	60 (V)	20	60	1.0	0.3	1.0	—	1.0 (T)	TO-5
2N2035	NPN	17 (C)	200	80	60 (V)	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 (V)	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 (V)	20	60	1.0	1.0	1.0	20 (E)	10 (T)	MT-21
2N2151	NPN	30 (C)	175	125	80 (V)	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 (V)	25	90	0.2	1.7	0.2	30 (E)	—	TO-5
2N2202	NPN	1 (C)	175	120	100 (V)	25	90	0.2	1.7	0.2	30 (E)	—	RO-45
2N2203	NPN	1 (C)	175	120	100 (V)	25	90	0.2	1.7	0.2	30 (E)	—	MT-19
2N2204	NPN	1 (C)	175	120	100 (V)	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 (V)	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 (V)	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 (V)	40	120	1.0	0.25	1.0	40 (E)	20 (T)	TO-62
2N2633	NPN	40 (C)	175	120	80 (V)	40	120	1.0	0.25	1.0	40 (E)	20 (T)	TO-62
2N2634	NPN	40 (C)	175	150	100 (V)	40	120	1.0	0.25	1.0	40 (E)	20 (T)	TO-62
2N2657	NPN	1.25 (A)	200	80	60 (V)	40	120	1.0	0.5	1.0	—	20 (T)	TO-5
2N2658	NPN	1.25 (A)	200	100	80 (V)	40	120	1.0	0.5	1.0	—	20 (T)	TO-5
2N2697	NPN	18 (C)	200	80	60 (V)	40	120	1.0	0.5	1.0	—	20 (T)	MT-9
2N2698	NPN	18 (C)	200	100	80 (V)	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 (V)	20	60	5	0.5	5	20 (E)	15 (T)	TO-61
2N2812	NPN	70 (J)	200	80	60 (V)	40	120	5	0.5	5	40 (E)	15 (T)	TO-61
2N2813	NPN	70 (J)	200	120	80 (V)	20	60	5	0.5	5	20 (E)	15 (T)	TO-61
2N2814	NPN	70 (J)	200	120	80 (V)	40	120	5	0.5	5	40 (E)	15 (T)	TO-61
2N2866	NPN	40 (C)	175	120	80 (V)	20	60	0.5	0.75	1.0	—	10 (T)	TO-59
2N2867	NPN	40 (C)	175	120	80 (V)	40	120	0.5	0.75	1.0	—	10 (T)	TO-59
2N2875	PNP	20 (C)	200	60	50 (V)	15	60	0.5	1.5	0.5	20 (E)	25 (E)	TO-59

* KHz
† with heat sink

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

* KHz

discrete devices



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T-27-01
T-33-01

silicon transistors cont'd
silicon power transistors — (cont'd)

Type	Polarity	Power Dissipation @ 25°C (Watts)	T _J (°C)	BV _{CEO} (volts)	BV _{CE—} (volts)	h _{FE} @ I _C			V _{CE (SAT)} @ I _C		f _T (MHz)	Case Style	
						(Min.)	(Max.)	(Amps)	(volts)	(Amps)			
		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/ct
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	—	—	40 (T)	TO-5
2N4001	NPN	1.0 (A)	200	120	100 (O)	40	120	0.5	0.3	—	—	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