

Power Transistors For Audio Power Amplifier

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
1	-0.05	-150	2SA914	-150	-5	90-450	-5	-0.01	-1	-0.03	-0.003	200	TO-126	Frequency power amplifier
1.2	-1	-18	2SA900	-20	-5	90-470	-2	-0.5	-0.5	-1	-0.05	200	TO-126	Frequency power amplifier
1.2	1	40	2SC2556	130	5	150-350	0.5	1	0.5	0.5	0.05	200	TO-126	Audio frequency power amplifier
1.2	1	50	2SC2556A	180	5	150-350	0.5	1	0.5	0.5	0.05	200	TO-126	Audio frequency power amplifier
1.2	-2	-40	2SB1075	-50	-5	50-220	-5	-1	-1	-3	-0.3	150	TO-126	Audio frequency amplifier output
1.5	-0.05	-150	2SA1125	-150	-5	90-450	-5	-0.01	-1	-0.03	-0.003	200	TO-220	Audio frequency amplifier
1.8	-3	-60	2SB1640	-60	-7	100-320	-5	-0.5	-1.5	-2	-0.2	9	ITO-220	Audio frequency power amplifier
2	-2	-100	2N5676	-125	-5	50-150	-5	-0.5	-0.5	-1	-0.1	>50	TO-66	High frequency driver
5	0.05	150	2SC3423	150	5	80-240	5	0.01	1	0.01	0.001	200	TO-126	Audio frequency amplifier
5	-0.05	-150	2SA1360	-150	-5	80-240	-5	-0.01	-1	-0.01	-0.001	200	TO-126	Audio frequency amplifier
5	-5	-35	2SA1120	-35	-6	200-	-2	-0.5	-1	-4	-0.1	170	TO-126	Audio power amplifier
8	-0.1	-180	2SA1142	-180	-5	100-320	-5	-0.01	-0.5	-0.05	-0.005	180	TO-126	Audio frequency amplifier
10	0.1	180	2SC2682	180	5	100-320	5	0.01	0.5	0.05	0.005	200	TO-126	Audio frequency power amplifier
10	-0.1	-180	2SA1383	-180	-5	100-320	-5	-0.01	-0.5	-0.05	-0.005	180	TO-220	Audio frequency power amplifier
10	0.2	300	2SC4075	300	7	40-200	10	0.01	2	0.05	0.005	>50	TO-220F	Audio output applications
10	-0.8	-80	2SB548	-100	-5	40-320	-5	-0.2	-2	-0.5	-0.05	70	TO-126	Audio frequency amplifier
10	1	35	2SC2582	45	5	85-340	10	0.5	0.5	0.5	0.05	200	TO-126	Audio frequency power amplifier
10	1.5	160	2SC3902	180	6	100-400	5	0.1	0.45	0.5	0.05	120	TO-126	Audio applications
10	3	30	2SC1096	40	5	40-250	5	1	2	3	0.3	65	TO-202	Audio frequency power amplifier
10	3	30	2SD882	40	5	60-400	2	1	0.5	2	0.2	90	TO-126	Audio amplifier
10	-3	-30	2SA634	-40	-5	40-250	-5	-1	-2	-3	-0.3	55	TO-202	Frequency power amplifier
10	-3	-30	2SB772	-40	-5	60-400	-2	-1	-0.5	-2	-0.2	80	TO-126	Audio amplifier
10	-3	-40	2SA1217	-40	-5	80-240	-2	-0.5	-0.8	-2	-0.2	100	TO-126	Audio frequency power amplifier
10	-3	-40	2SA1359	-40	-5	80-240	-2	-0.5	-0.8	-2	-0.2	100	TO-126	Audio frequency amplifier
10	3	45	2SC1098	70	5	40-250	5	0.5	2	1.5	0.15	60	TO-202	Audio frequency power amplifier
10	3	45	2SD794	70	5	60-320	5	0.5	2	1.5	0.15	60	TO-126	Audio frequency power amplifier
10	-3	-45	2SA636	-70	-5	40-250	-5	-0.5	-2	-1.5	-0.15	45	TO-202	Frequency power amplifier
10	-3	-45	2SB744	-70	-5	60-320	-5	-0.5	-2	-1.5	-0.15	45	TO-126	Audio frequency power amplifier
10	3	60	2SC1098A	70	5	40-250	5	0.5	2	1.5	0.15	60	TO-202	Audio frequency power amplifier
10	3	60	2SD794A	70	5	60-320	5	0.5	2	1.5	0.15	60	TO-126	Audio frequency power amplifier
10	-3	-60	2SA636A	-70	-5	40-250	-5	-0.5	-2	-1.5	-0.15	45	TO-202	Frequency power amplifier
10	-3	-60	2SB744A	-70	-5	60-320	-5	-0.5	-2	-1.5	-0.15	45	TO-126	Audio frequency power amplifier
10	-5	-30	2SB1657	-30	-6	150-600	-2	-0.5	-1	-3	-0.075	75	TO-126	Audio frequency power amplifier
10	-5	-30	2SB1658	-30	-6	150-600	-2	-1	-0.5	-4	-0.2	95	TO-126	Audio frequency power amplifier
12.5	3	40	MJE180	60	7	50-250	1	0.1	1.7	3	0.6	>50		

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(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
20	0.5	300	2N5656	325	6	30-250	10	0.1	10	0.5	0.1	>10	TO-126	Output amplifier
20	0.5	350	2N5657	375	6	30-250	10	0.1	10	0.5	0.1	>10	TO-126	Output amplifier
20	1	150	2SC2591	150	5	90-330	10	0.15	2	0.5	0.05	200	TO-220	Audio frequency power amplifier
20	-1	-150	2SA1111	-150	-5	65-330	-10	-0.15	-2	-0.5	-0.05	200	TO-220	Audio frequency amplifier
20	1	180	2SC2592	180	5	90-330	10	0.15	2	0.5	0.05	200	TO-220	Audio frequency power amplifier
20	-1	-180	2SA1112	-180	-5	65-330	-10	-0.15	-2	-0.5	-0.05	200	TO-220	Audio frequency amplifier
20	1.2	120	2SC2690	120	5	60-320	5	0.3	0.7	1	0.2	155	TO-126	Audio frequency power amplifier
20	-1.2	-120	2SA1220	-120	-5	60-320	-5	-0.3	-0.7	-1	-0.2	175	TO-126	Audio frequency power amplifier
20	1.2	160	2SC2690A	160	5	60-320	5	0.3	0.7	1	0.2	155	TO-126	Audio frequency power amplifier
20	-1.2	-160	2SA1220A	-160	-5	60-320	-5	-0.3	-0.7	-1	-0.2	175	TO-126	Audio frequency power amplifier
20	1.5	110	2SD1180	120	5	100-	5	0.15	0.7	1	0.2		TO-126	Audio frequency power amplifier
20	1.5	120	2SD381	130	5	40-250	5	0.3	2	1	0.1	45	TO-220	Audio frequency power amplifier
20	-1.5	-120	2SB536	-130	-5	40-250	-5	-0.3	-2	-1	-0.1	40	TO-220	Audio frequency power amplifier
20	-1.5	-160	2SA1659	-160	-5	70-240	-5	-0.1	-1.5	-0.5	-0.05	100	TO-220F	Audio frequency amplifier output
20	-1.5	-180	2SA1659A	-180	-5	70-240	-5	-0.1	-1.5	-0.5	-0.05	100	TO-220F	Audio frequency amplifier output
20	2	60	2N5598	80	5	70-200	5	1	1	1	0.1	>60	TO-66	Power amplifier/Driver
20	-2	-60	2N5597	-80	-5	70-200	-5	-1	-1	-1	-0.1	>60	TO-66	Power amplifier/Driver
20	2	80	2N5600	100	5	30-90	5	1	1	1	0.1	>50	TO-66	Power amplifier/Driver
20	2	80	2N5602	100	5	70-200	5	1	1	1	0.1	>60	TO-66	Power amplifier/Driver
20	-2	-80	2N5599	-100	-5	30-90	-5	-1	-1	-1	-0.1	>50	TO-66	Power amplifier/Driver
20	-2	-80	2N5601	-100	-5	70-200	-5	-1	-1	-1	-0.1	>60	TO-66	Power amplifier/Driver
20	2	100	2N5604	120	5	30-90	5	1	1	1	0.1	>50	TO-66	Power amplifier/Driver
20	-2	-100	2SC4883	-120	-5	30-90	-5	-1	-1	-1	-0.1	>50	TO-66	Power amplifier/Driver
20	2	150	2SC4883	150	6	60-240	10	0.7	1	0.7	0.07	120	TO-220F	Audio output driver
20	-2	-150	2SA1859	-150	-6	60-240	-10	-0.7	-1	-0.7	-0.07	60	TO-220F	Audio output driver
20	2	180	2SC4883A	180	6	60-240	10	0.7	1	0.7	0.07	120	TO-220F	Audio output driver
20	-2	-180	2SA1859A	-180	-6	60-240	-10	-0.7	-1	-0.7	-0.07	60	TO-220F	Audio output driver
20	3	120	2N6263	140	7	20-100	4	0.5	1.2	0.5	0.05	>0.2	TO-66	Audio amplifier
20	-10	-20	2SA1327	-50	-8	100-320	-2	-1	-0.5	-8	-0.4	45	TO-220Fa	Audio power amplifier
25	-1.5	-150	2SA839	-150	-5	40-240	-10	-0.5	-1.5	-0.5	-0.05	6	TO-220	Audio power amplifier
25	1.5	160	2SC2344	180	6	60-200	5	0.3	0.3*	0.5	0.05	100	TO-220	Audio frequency power amplifier
25	-1.5	-160	2SA1011	-180	-6	60-200	-5	-0.3	-0.5*	-0.5	0.05	100	TO-220	Frequency power amplifier
25	1.5	180	2SC2336	180	5	60-320	5	0.15	1	0.5	0.05	95	TO-220	Audio frequency power amplifier
25	-1.5	-180	2SA1006	-180	-5	60-320	-5	-0.15	-1	-0.5	-0.05	80	TO-220	Frequency power amplifier
25	1.5	200	2SC2336A	200	5	60-320	5	0.15						

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						V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP			
25	6	85	2SD1940	100	6	60-320	5	1	2	4	0.4	15	TO-220F	Power amplifier
30	3	60	2SD313	60	5	40-320	2	1	1	2	0.2	>5	TO-220	15W~25W AF power amplifier
30	3	60	2SD880	60	7	60-300	5	0.5	1	3	0.3	3	TO-220	Audio frequency power amplifier
30	-3	-60	2SB834	-60	-7	60-200	-5	-0.5	-1	-3	-0.3	9	TO-220	Audio frequency power amplifier
30	-4	-50	2SB1005	-50	-5	750-	-3	-1.5	-4	-4	-0.04		TO-220	Audio frequency power amplifier
30	4	60	2SD762	60	8	30-160	3	1	1	2	0.4		TO-220	Audio frequency amplifier output
30	4	60	2SD1265	60	8	30-160	3	1	1	2	0.4		TO-220Fa	Audio frequency power amplifier
30	-4	-60	2SA1262	-60	-6	40-	-4	-1	-0.6	-2	-0.2	15	TO-220	Audio applications
30	4	80	2SD526	80	5	40-240	5	0.5	1.5	3	0.3	8	TO-220	Audio frequency amplifier output
30	4	80	2SD762A	80	8	30-160	3	1	1	2	0.4		TO-220	Audio frequency amplifier output
30	4	80	2SD1265A	80	8	30-160	3	1	1	2	0.4		TO-220Fa	Audio frequency power amplifier
30	-4	-80	2SB596	-80	-5	40-240	-5	-0.5	-1.7	-3	-0.3	>3	TO-220	Audio frequency amplifier output
30	5	100	2SD1308	100	7	2K-	2	2	1.5	2	0.002		TO-220	Audio frequency power amplifier
30	6	80	2SC4511	120	6	50-180	4	2	0.5	2	0.2	20	TO-220F	Audio applications
30	-6	-80	2SA1725	-80	-6	50-180	-4	-2	-0.5	-2	-0.2	20	TO-220F	Audio applications
30	6	110	2SD2495	110	5	5K-	4	5	2.5	5	0.005	60	TO-220F	Power amplifier
30	-6	-110	2SB1626	-110	-5	5K-	-4	-5	-2.5	-5	-0.005	100	TO-220F	Audio power
35	2	300	2N3585	500	6	25-100	10	1	0.75	1	0.125		TO-66	High fidelity amplifier
35	-3	-60	2SB761	-60	-5	40-250	-4	-1	-1.2	-3	-0.375		TO-220	Audio frequency power amplifier
35	-3	-80	2SB761A	-80	-5	40-250	-4	-1	-1.2	-3	-0.375		TO-220	Audio frequency power amplifier
35	4	60	2SD315	60	5	40-320	2	1	1	2	0.2	8	TO-66	Audio frequency power amplifier
35	-4	-60	2SB509	-60	-5	40-320	-2	-1	-1	-2	-0.2	8	TO-66	Audio frequency power amplifier
36	8	80	2N6534	80	5	1K-10K	3	5	3	8	0.08		TO-66	Audio amplifier
36	8	100	2N6535	100	5	500-10K	3	3	3	8	0.08		TO-66	Audio amplifier
36	8	100	2N6536	100	5	1K-10K	3	5	3	8	0.08		TO-66	Audio amplifier
36	8	120	2N6537	120	5	1K-10K	3	3	3	8	0.08		TO-66	Audio amplifier
36	8	150	MJF15030	150	5	40-	2	2	0.5	1	0.1	>30	TO-220F	High frequency driver
36	-8	-150	MJF15031	-150	-5	40-	-2	-2	-0.5	-1	-0.1	>30	TO-220F	High frequency driver
40	1	250	TIP47	350	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Audio output amplifier
40	1	300	2SC1050	300	6	30-200	5	0.3	1.2	0.5	0.1		TO-3	Audio applications
40	1	300	TIP48	400	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Audio output amplifier
40	1	350	TIP49	450	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Audio output amplifier
40	1	400	TIP50	500	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Audio output amplifier
40	-4	-40	MJE371	-40	-4	40-	-1	-1	-0.5	-2	-0.2		TO-126	5 to 20 W Audio amplifier
40	-4	-60	2SB762	-60	-5	40-250	-4	-1	-1.5	-4	-0.4		TO-220	Audio frequency amplifier
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						V _{CE} (V)	I _C (A)		max	I _C (A)	I _B (A)			
50	-6	-80	2SA756	-100	-6	35-200	-5	-1	-1.8	-5	-1	20	TO-3	Amplifier power output
50	-6	-80	2SA1726	-80	-6	50-180	-4	-2	-0.5	-2	-0.2	20	TO-220	Audio applications
50	6	110	2SD2340	130	5	5K-	5	3	2.5	5	0.005	20	TO-3PN	Power amplifier
50	-7	-70	2SA658	-70	-5	30-300	-5	-1	-2	-5	-1	5	TO-3	Frequency power amplifier
50	-7	-100	2SA657	-100	-5	30-300	-5	-1	-2	-5	-1	5	TO-3	Frequency power amplifier
50	-7	-130	2SA656	-130	-5	30-300	-5	-1	-2	-5	-1	5	TO-3	Frequency power amplifier
50	8	120	MJE15028	120	5	40-	2	2	0.5	1	0.1	>30	TO-220	High frequency driver
50	-8	-120	MJE15029	-120	-5	40-	-2	-2	-0.5	-1	-0.1	>30	TO-220	High frequency driver
50	8	150	MJE15030	150	5	40-	2	2	0.5	1	0.1	>30	TO-220	High frequency driver
50	-8	-150	MJE15031	-150	-5	40-	-2	-2	-0.5	-1	-0.1	>30	TO-220	High frequency driver
55	6	80	2SC4688	80	5	55-160	5	1	2	5	0.5	30	TO-3PML	Audio frequency amplifier output
55	-6	-80	2SA1803	-80	-5	55-160	-5	-1	-2	-5	-0.5	30	TO-3PML	Audio frequency amplifier output
60	4	250	2SD1073	300	30	1K-	2	2		0.01	1.5		TO-220	Audio power amplifier
60	6	80	2SC2577	120	6	50-	4	2	1.5	3	0.3	20	TO-3PN	Audio power amplifier
60	6	80	2SC3180N	80	5	55-160	5	1	2	5	0.5	30	TO-3PI	Audio frequency amplifier output
60	6	80	2SC3853	120	6	50-	4	2	1.5	2	0.2	20	TO-3PN	Audio applications
60	6	80	2SC4385	120	6	50-180	4	2	1.5	2	0.2	20	TO-3PML	Audio applications
60	6	80	2SC4466	120	6	50-180	4	2	1.5	2	0.2	20	TO-3PN	Audio applications
60	6	80	2SC5099	120	6	50-180	4	2	0.5	2	0.2	20	TO-3PML	Audio applications
60	6	80	2SC5196	80	5	55-160	5	1	2	5	0.5	30	TO-3PI	Audio frequency amplifier output
60	-6	-80	2SA626	-80	-6	30-120	-5	-2	-2	-4	-0.4	15	TO-3	Audio frequency output
60	-6	-80	2SA1102	-80	-6	50-180	-4	-2	-1.5	-3	-0.3	20	TO-3PN	Audio power amplifier
60	-6	-80	2SA1489	-80	-6	50-	-4	-2	-1.5	-2	-0.2	20	TO-3PN	Audio applications
60	-6	-80	2SA1670	-80	-6	50-	-4	-2	-1.5	-2	-0.2	20	TO-3PML	Audio applications
60	-6	-80	2SA1693	-80	-6	50-180	-4	-2	-1.5	-2	-0.2	20	TO-3PN	Audio applications
60	-6	-80	2SA1907	-80	-6	50-180	-4	-2	-0.5	-2	-0.2	20	TO-3PML	Audio applications
60	-6	-80	2SA1939	-80	-5	55-160	-5	-1	-2	-5	-0.5	30	TO-3PI	Audio frequency amplifier output
60	6	85	2SD895	100	6	60-200	5	1	2	4	0.4	15	TO-3PN	Audio frequency output
60	6	100	2SD716	100	5	55-160	5	1	2	4	0.4	12	TO-3PI	Audio frequency amplifier output
60	-6	-100	2SB686	-100	-5	55-160	-5	-1	-2	-4	-0.4	10	TO-3PI	Audio frequency amplifier output
60	6	110	2SD2493	110	5	5K-	4	5	2.5	5	0.005	60	TO-3PN	Power amplifier
60	6	110	2SD2494	110	5	5K-	4	5	2.5	5	0.005	60	TO-3PML	Power amplifier
60	-6	-110	2SB1624	-110	-5	5K-	-4	-5	-2.5	-5	-0.005	100	TO-3PN	Audio power
60	-6	-110	2SB1625	-110	-5	5K-	-4	-5	-2.5	-5	-0.005	100	TO-3PML	Audio power
60	7	100	2SD188	100	6	30-120	2	3	2	5	0.5	10	TO-3	Audio frequency output

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(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
62.5	-8	-100	BD650	-120	-5	750-	-3	-3	-2.5	-5	-0.05		TO-220	Audio amplifier
62.5	8	120	BD651	140	5	750-	3	3	2.5	5	0.05		TO-220	Audio amplifier
62.5	-8	-120	BD652	-140	-5	750-	-3	-3	-2.5	-5	-0.05		TO-220	Audio amplifier
65	8	80	2N6530	80	5	1K-10K	3	5	3	8	0.08		TO-220	Audio amplifier
65	8	100	2N6531	100	5	500-10K	3	3	3	8	0.08		TO-220	Audio amplifier
65	8	100	2N6532	100	5	1K-10K	3	5	3	8	0.08		TO-220	Audio amplifier
65	8	120	2N6533	120	5	1K-10K	3	3	3	8	0.08		TO-220	Audio amplifier
70	6	100	2SC2485	100	5	40-200	5	1	2	4	0.4	20	TO-3PN	Power audio frequency amplifier
70	7	100	2SC2578	140	6	50-	4	3	2	3	0.3	20	TO-3PN	Audio frequency power amplifier
70	7	100	2SD896	120	6	60-200	5	1	2	4	0.4	15	TO-3PN	Audio frequency output
70	-7	-100	2SA1103	-100	-6	50-180	-4	-3	-1.5	-3	-0.3	20	TO-3PN	Audio power amplifier
70	8	45	BD895	45	5	750-	3	3	2.5	3	0.012		TO-220	Amplifier in output satge
70	8	45	BD895A	45	5	750-	3	4	2.8	4	0.016		TO-220	Amplifier in output satge
70	-8	-45	BD896	-45	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	Amplifier in output satge
70	-8	-45	BD896A	-45	-5	750-	-3	-4	-2.8	-4	-0.016		TO-220	Amplifier in output satge
70	8	60	BD897	60	5	750-	3	3	2.5	3	0.012		TO-220	Amplifier in output satge
70	8	60	BD897A	60	5	750-	3	4	2.8	4	0.016		TO-220	Amplifier in output satge
70	-8	-60	BD898	-60	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	Amplifier in output satge
70	-8	-60	BD898A	-60	-5	750-	-3	-4	-2.8	-4	-0.016		TO-220	Amplifier in output satge
70	8	80	BD899	80	5	750-	3	3	2.5	3	0.012		TO-220	Amplifier in output satge
70	8	80	BD899A	80	5	750-	3	4	2.8	4	0.016		TO-220	Amplifier in output satge
70	-8	-80	BD900	-80	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	Amplifier in output satge
70	-8	-80	BD900A	-80	-5	750-	-3	-4	-2.8	-4	-0.016		TO-220	Amplifier in output satge
70	8	100	BD901	100	5	750-	3	3	2.5	3	0.012		TO-220	Amplifier in output satge
70	-8	-100	BD902	-100	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	Amplifier in output satge
70	-8	-120	2SA1804	-120	-5	55-160	-5	-1	-2	-6	-0.6	30	TO-3PML	Audio frequency amplifier output
75	8	120	2SC4386	160	6	50-180	4	3	1.5	3	0.3	20	TO-3PML	Audio applications
75	8	120	2SC5100	160	6	50-180	4	3	0.5	3	0.3	20	TO-3PML	Audio applications
75	-8	-120	2SA1671	-120	-6	50-180	-4	-3	-0.5	-3	-0.3	20	TO-3PML	Audio applications
75	-8	-120	2SA1908	-120	-6	50-180	-4	-3	-0.5	-3	-0.3	20	TO-3PML	Audio applications
75	8	150	2SD2438	160	5	5K-	4	6	2.5	6	0.006	80	TO-3PML	Power amplifier
75	-8	-150	2SB1587	-160	-5	5K-	-4	-6	-2.5	-6	-0.006	65	TO-3PML	Audio power
80	-7	-110	2SA758	-130	-5	25-200	-5	-1	-1.8	-5	-1	20	TO-3	Amplifier power output
80	7	120	2SC2486	120	5	40-200	5	1	2	5	0.5	20	TO-3PN	Power audio frequency amplifier
80	8	120	2SC3181N	120	5	55-160	5	1	2	6	0.6	30	TO-3PI	Audio frequency amplifier output
80	8	120	2SC3854	160	6	50-	4	3	1.5	3	0.3	20	TO-3PN	Audio applications
80	8	120												

Power Transistors For Audio Power Amplifier

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
80	10	140	2SC5101	200	6	50-180	4	3	0.5	5	0.5	20	TO-3PML	Audio applications
80	-10	-140	2SA1672	-140	-6	50-180	-4	-3	-2	-5	-0.5	20	TO-3PML	Audio applications
80	-10	-140	2SA1805	-140	-5	55-160	-5	-1	-2	-7	-0.7	30	TO-3PML	Audio frequency amplifier output
80	-10	-140	2SA1909	-140	-6	50-180	-4	-3	-0.5	-5	-0.5	20	TO-3PML	Audio applications
80	10	150	2SD2439	160	5	5K-	4	7	2.5	7	0.007	55	TO-3PML	Power amplifier
80	-10	-150	2SB1588	-160	-5	5K-	-4	-7	-2.5	-7	-0.007	50	TO-3PML	Audio power
80	12	45	BDW93	45	5	750-20K	3	5	3	10	0.1		TO-220	Amplifier/Low-speed switching
80	-12	-45	BDW94	-45	-5	750-20K	-3	-5	-3	-10	-0.1		TO-220	Amplifier/Low-speed switching
80	12	60	BDW93A	60	5	750-20K	3	5	3	10	0.1		TO-220	Amplifier/Low-speed switching
80	-12	-60	2SA1789	-60	-5	60-320	-2	-2	-0.5	-6	-0.6		TO-247	Audio output
80	-12	-60	BDW94A	-60	-5	750-20K	-3	-5	-3	-10	-0.1		TO-220	Amplifier/Low-speed switching
80	12	80	BDW93B	80	5	750-20K	3	5	3	10	0.1		TO-220	Amplifier/Low-speed switching
80	-12	-80	BDW94B	-80	-5	750-20K	-3	-5	-3	-10	-0.1		TO-220	Amplifier/Low-speed switching
80	12	100	BDW93C	100	5	750-20K	3	5	3	10	0.1		TO-220	Amplifier/Low-speed switching
80	-12	-100	BDW94C	-100	-5	750-20K	-3	-5	-3	-10	-0.1		TO-220	Amplifier/Low-speed switching
80	14	150	2SC4886	150	5	50-180	4	5	2	5	0.5	60	TO-3PML	Audio applications
80	-14	-150	2SA1860	-150	-5	50-180	-4	-5	-2	-5	-0.5	50	TO-3PML	Audio applications
80	-15	-40	2SB757	-40	-5	40-240	-2	-5	-0.8	-5	-0.5		TO-3PN	Audio amplifier
85	15	100	BDW42	100	5	1K-	4	5	3	10	0.05	>4	TO-220	Amplifier/Low-speed switching
85	-15	-100	BDW47	-100	-5	1K-	-4	-5	-3	-10	-0.05	>4	TO-220	Amplifier/Low-speed switching
85	15	180	2SC4388	200	6	50-180	4	3	2	5	0.5	20	TO-3PML	Audio applications
85	-15	-180	2SA1673	-180	-6	50-180	-4	-3	-2	-5	-0.5	20	TO-3PML	Audio applications
90	9	120	2SC2580	180	6	50-	4	3	2.5	5	0.5	20	TO-3PN	Audio power amplifier
90	-9	-120	2SA1105	-120	-6	50-180	-4	-3	-1.5	-3	-0.3	20	TO-3PN	Audio power amplifier
90	10	80	BD809	80	5	30-	2	2	1.1	3	0.3	>1.5	TO-220	Amplifier complementary circuit
90	-10	-80	BD810	-80	-5	30-	-2	-2	-1.1	-3	-0.3	>1.5	TO-220	Amplifier complementary circuit
100	2.5	200	2SC1195	200	5	30-150	5	1	1.5	2.5	0.5		TO-3	Audio power amplifier
100	-7	-200	2SA1988	-200	-5	70-200	-5	-1	-2	-5	-0.5	40	TO-3PN	Audio frequency power amplifier
100	-8	-150	2SA1064	-150	-5	40-280	-5	-1	-2	-8	-0.8	50	TO-3	Frequency power amplifier
100	9	150	2SD2053	150	5	60-200	5	1	2	7	0.7	20	TO-3PN	Power amplifier
100	10	40	2N6383	40	5	1K-20K	3	5	3	10	0.1		TO-3	Power switching amplifier
100	10	60	2SD1243	60	5	50-	3	3	1.5	5	0.5		TO-3PN	Audio frequency power amplifier
100	10	60	2N5622	80	5	70-200	5	5	1.5	10	1	>40	TO-3	Audio amplifier
100	10	60	2N6384	60	5	1K-20K	3	5	3	10	0.1		TO-3	Power switching amplifier
100	-10	-60	2N5621	-80	-5	70-200	-5	-5	-1.5	-10	-1	>40	TO-3	Audio amplifier

Power Transistors For Audio Power Amplifier

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
100	-10	-130	2SA1232	-130	-5	60-320	-5	-2	-1.5	-5	-0.5	60	TO-3PFa	Audio frequency power amplifier
100	10	140	2SC2581	200	6	50-	4	3	2	5	0.5	20	TO-3PN	Audio power amplifier
100	10	140	2SC2706	140	5	55-160	5	1	2	5	0.5	90	TO-3PI	Audio power amplifier
100	10	140	2SC3182N	140	5	55-160	5	1	2	7	0.7	30	TO-3PI	Audio frequency amplifier output
100	10	140	2SC3855	200	6	50-	4	3	2	5	0.5	20	TO-3PN	Audio applications
100	10	140	2SC4468	200	6	50-180	4	3	0.5	5	0.5	20	TO-3PN	Audio applications
100	10	140	2SC5198	140	5	55-160	5	1	2	7	0.7	30	TO-3PI	Audio frequency amplifier output
100	10	140	2SD1148	140	5	55-160	5	1	2	5	0.5	20	TO-3PI	Audio frequency power amplifier
100	-10	-140	2SA747A	-140	-6	30-	-4	-3	-2	-5	-0.5	15	TO-3	Audio and general purpose
100	-10	-140	2SA1106	-200	-6	50-180	-4	-5	-1.5	-5	-0.5	20	TO-3PN	Audio power amplifier
100	-10	-140	2SA1146	-140	-5	55-160	-5	-1	-2	-5	-0.5	70	TO-3PI	Audio applications
100	-10	-140	2SA1491	-140	-6	50-	-4	-3	-2	-5	-0.5	20	TO-3PN	Audio applications
100	-10	-140	2SA1695	-140	-6	50-180	-4	-3	-0.5	-5	-0.5	20	TO-3PN	Audio applications
100	-10	-140	2SA1941	-140	-5	55-160	-5	-1	-2	-7	-0.7	30	TO-3PI	Audio frequency amplifier output
100	-10	-140	2SB863	-140	-5	55-160	-5	-1	-2	-5	-0.5	15	TO-3PI	Audio frequency amplifier output
100	10	150	2SC2837	150	5	50-	4	3	2	5	0.5	70	TO-3PN	Audio applications
100	10	150	2SC4278	150	6	60-320	5	1	1.5	5	0.5	20	TO-247	Audio output applications
100	10	150	2SD2390	160	5	5K-	4	7	2.5	7	0.007	55	TO-3PN	Power amplifier
100	-10	-150	2SA1068	-150	-5	60-150	-4	-3	-2	-5	-0.5	50	TO-3	Audio amplifier
100	-10	-150	2SA650	-150	-6	30-150	-5	-2	-2	-5	-0.5	10	TO-3	Frequency power amplifier
100	-10	-150	2SA1633	-150	-6	60-320	-5	-1	-1.5	-5	-0.5	20	TO-247	Audio output
100	-10	-150	2SB1560	-160	-5	5K-	-4	-7	-2.5	-7	-0.007	50	TO-3PN	Audio power
100	12	100	2SC1080	100	5	40-140	5	2	3	10	1	4	TO-3	Audio power amplifier
100	-12	-100	2SA680	-100	-5	40-140	-5	-2	-3	-10	-1	6	TO-3	Frequency power amplifier
100	12	120	2SC1079	120	5	40-140	5	2	3	10	1	4	TO-3	Audio power amplifier
100	-12	-120	2SA679	-120	-5	40-140	-5	-2	-3	-10	-1	6	TO-3	Frequency power amplifier
100	-12	-120	2SB556	-120	-5	40-140	-5	-2	-3	-6	-0.6	6	TO-3	Audio frequency amplifier output
100	12	140	2SD425	140	5	40-140	5	2	3	7	0.7	5	TO-3	Audio frequency amplifier output
100	12	140	2SD733	160	6	40-320	5	1	2.5	6	0.6	15	TO-3	Audio frequency amplifier output
100	12	140	2SD1047	160	6	60-200	5	1	2.5	5	0.5	15	TO-3PN	Low-frequency power amplifier
100	-12	-140	2SA1050	-140	-5	55-160	-5	-1	-2.5	-8	-0.8	70	TO-3	Audio power amplifier
100	-12	-140	2SB555	-140	-5	40-140	-5	-2	-3	-7	-0.7	6	TO-3	Audio frequency amplifier output
100	-12	-140	2SB697	-160	-6	40-320	-5	-1	-2.5	-6	-0.6	15	TO-3	Audio frequency amplifier output
100	12	150	2SD551	150	5	40-140	5	1	2.5	5	0.5	15	TO-3	Audio frequency amplifier output
100	12	160	2SD426											

Power Transistors For Audio Power Amplifier

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}		V _{ce(sat)}			f _T	Package	Function	
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
120	-10	-150	2SA1065	-150	-5	40-280	-5	-2	-2	-10	-1	50	TO-3	Audio frequency amplifier
120	-10	-150	2SA1107	-150	-5	55-160	-5	-1	-2	-5	-0.5	50	MT-200	Audio applications
120	-10	-150	2SB705A	-150	-5	40-200	-5	-2	-1.5	-5	-0.5	17	MT-200	Audio frequency amplifier output
120	10	160	2SD745B	160	5	40-200	5	2	1.5	5	0.5	15	MT-200	Audio amplifier/Voltage regulator
120	-10	-160	2SB705B	-160	-5	40-200	-5	-2	-1.5	-5	-0.5	17	MT-200	Audio frequency amplifier output
120	-12	-120	2SA1072	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-3	Audio power amplifier
120	-12	-120	2SA1075	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	MT-200	Audio power amplifier
120	-12	-140	2SA1227	-140	-5	60-320	-5	-2	-1.5	-5	-0.5	60	TO-3PFA	Audio frequency power amplifier
120	12	150	2SC2838	150	5	60-	4	3	1.8	5	0.5	70	MT-200	Audio power amplifier
120	12	150	2SD845	150	5	55-160	5	1	2	5	0.5	20	MT-200	Audio frequency amplifier output
120	-12	-150	2SA1187	-150	-5	50-	-4	-3	-2	-5	-0.5	60	MT-200	Audio applications
120	12	160	2SC5199	160	5	55-160	5	1	2.5	8	0.8	30	TO-3PL	Audio frequency amplifier output
120	12	160	2SD2029	160	5	60-200	5	1	2	8	0.8	20	TO-3PL	Audio amplifier
120	-12	-160	2SA1073	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-3	Audio power amplifier
120	-12	-160	2SA1076	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	60	MT-200	Audio power amplifier
120	-12	-160	2SA1227A	-160	-5	60-320	-5	-2	-1.5	-5	-0.5	60	TO-3PFA	Audio frequency power amplifier
120	-12	-160	2SA1301	-160	-5	55-160	-5	-1	-2.5	-8	-0.8	30	TO-3PL	Audio frequency amplifier output
120	-12	-160	2SA1389	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	30	MT-200	Audio power amplifier
120	-12	-160	2SA1942	-160	-5	55-160	-5	-1	-2.5	-8	-0.8	30	TO-3PL	Audio frequency amplifier output
120	15	60	2N6576	60	7	2K-20K	3	4	4	15	0.15		TO-3	Audio amplifier
120	15	90	2N6577	90	7	2K-20K	3	4	4	15	0.15		TO-3	Audio amplifier
120	15	120	2N6578	120	7	2K-20K	3	4	4	15	0.15		TO-3	Audio amplifier
125	12	60	BDV65	60	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier in output satge
125	-12	-60	BDV64	-60	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier in output satge
125	12	80	BDV65A	80	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier in output satge
125	-12	-80	BDV64A	-80	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier in output satge
125	12	100	BDV65B	100	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier in output satge
125	-12	-100	BDV64B	-100	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier in output satge
125	12	120	BDT65C	120	5	1K-	4	5	3	10	0.1		TO-220	Amplifier in output satge
125	12	120	BDV65C	120	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier in output satge
125	-12	-120	BDV64C	-120	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier in output satge
125	14	150	2SC3284	150	5	50-180	4	5	2	5	0.5	60	TO-3PN	Audio applications
125	-14	-150	2SA1303	-150	-5	50-180	-4	-5	-2	-5	-0.5	50	TO-3PN	Audio applications
125	15	100	BDW51C	100	5	20-150	4	5	3	10	2.5	>3	TO-3	Power linear and switching
125	-15	-1												

Power Transistors For Audio Power Amplifier

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
130	15	230	2SC5242	230	5	55-160	5	1	3	8	0.8	30	TO-3PI	Audio frequency amplifier output
130	-15	-230	2SA1294	-230	-5	50-140	-4	-5	-2	-5	-0.5	35	TO-3PN	Audio applications
130	-15	-230	2SA1962	-230	-5	55-160	-5	-1	-3	-8	-0.8	30	TO-3PI	Audio frequency amplifier output
140	15	230	2SC5669	250	6	60-160	5	1	2	7.5	0.75	15	TO-3PN	Audio frequency amplifier output
140	-15	-230	2SA2031	-250	-6	60-160	-5	-1	-2	-7.5	-0.75	10	TO-3PN	Audio frequency amplifier output
150	6	100	2N5758	100	7	25-100	2	3	2	6	1.2	>1	TO-3	High power amplifier
150	-6	-100	2N6226	-100	-7	25-100	-2	-3	-1.2	-4	-0.4	>1	TO-3	High power amplifier
150	6	120	2N5759	120	7	20-80	2	3	2	6	1.2	>1	TO-3	High power amplifier
150	-6	-120	2N6227	-120	-7	20-80	-2	-3	-1.2	-4	-0.4	>1	TO-3	High power amplifier
150	6	140	2N5760	140	7	15-60	2	3	2	6	1.2	>1	TO-3	High power amplifier
150	-6	-140	2N6228	-140	-7	15-60	-2	-3	-1.2	-4	-0.4	>1	TO-3	High power amplifier
150	-10	-60	2N3791	-60	-7	50-180	-2	-1	-1	-5	-0.5	>4	TO-3	Amplifier
150	-10	-80	2N3792	-80	-7	50-180	-2	-1	-1	-5	-0.5	>4	TO-3	Amplifier
150	-10	-100	2N6229	-100	-7	25-100	-2	-5	-1	-4	-0.4	>1	TO-3	High power amplifier
150	-10	-120	2N6230	-120	-7	20-80	-2	-5	-1	-4	-0.4	>1	TO-3	High power amplifier
150	-10	-140	2N6231	-140	-7	15-60	-2	-5	-1	-4	-0.4	>1	TO-3	High power amplifier
150	10	150	2N6262	170	5	20-70	2	3	2	5	0.5	>0.8	TO-3	Audio amplifier
150	12	150	2SD2401	160	5	5K-	4	7	2.5	7	0.007	55	MT-200	Power amplifier
150	15	45	BDW83	45	5	750-20K	3	6	4	15	0.15		TO-3PN	Power linear and switching
150	-15	-45	BDW84	-45	-5	750-20K	-3	-6	-4	-15	-0.15		TO-3PN	Power linear and switching
150	15	60	BDW83A	60	5	750-20K	3	6	4	15	0.15		TO-3PN	Power linear and switching
150	-15	-60	BDW84A	-60	-5	750-20K	-3	-6	-4	-15	-0.15		TO-3PN	Power linear and switching
150	15	80	BDW83B	80	5	750-20K	3	6	4	15	0.15		TO-3PN	Power linear and switching
150	-15	-80	BDW84B	-80	-5	750-20K	-3	-6	-4	-15	-0.15		TO-3PN	Power linear and switching
150	15	100	BDW83C	100	5	750-20K	3	6	4	15	0.15		TO-3PN	Power linear and switching

Power Transistors For Audio Power Amplifier

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}		V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)	V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
150	16	150	2N6259	170	7	15-60	2	8	2.5	16	3.2	TO-3	High power amplifier
150	20	40	2N6257	50	5	15-75	4	8	4	20	4	TO-3	Audio amplifier
150	20	60	2N3772	100	7	15-60	4	10	4	20	4	TO-3	Linear amplifier
150	30	40	2N3771	50	5	15-60	4	15	4	30	6	TO-3	Linear amplifier
150	30	80	2N6270	100	7	20-100	4	15	1	7.5	0.75	TO-3	Audio amplifier
150	30	100	2N6271	120	7	20-100	4	15	1	7.5	0.75	TO-3	Audio amplifier
180	15	120	MJ15015	200	7	20-70	4	4	5	15	7	TO-3	High power linear application
180	-15	-120	MJ15016	-200	-7	20-70	-4	-4	-5	-15	-7	TO-3	High power linear application
180	-15	-230	2SA1987	-230	-5	55-160	-5	-1	-3	-8	-0.8	TO-3PL	Audio frequency amplifier output
200	-10	-180	2SA1109	-180	-5	50-160	-5	-2	-2	-5	-0.5	TO-3	Audio frequency amplifier
200	-10	-200	2SB600	-200	-5	20-	-5	-2	-1.5	-10	-1	TO-3	Audio applications
200	15	130	2N5498	150	7	10-50	5	15	4	15	3	TO-3	Power linear application
200	15	140	MJ15001	140	5	25-150	2	4	1	4	0.4	TO-3	Audio amplifier
200	16	60	BDV67	80	5	1K-	3	10	2	10	0.04	TO-3PN	Amplifier in output satge
200	16	80	BDV67A	100	5	1K-	3	10	2	10	0.04	TO-3PN	Amplifier in output satge
200	16	100	2N5629	100	7	25-100	2	8	2	16	4	TO-3	Audio amplifier
200	16	100	BDV67B	120	5	1K-	3	10	2	10	0.04	TO-3PN	Amplifier in output satge
200	16	120	2N5630	120	7	20-80	2	8	2	16	4	TO-3	Audio amplifier
200	16	120	BDV67C	140	5	1K-	3	10	2	10	0.04	TO-3PN	Amplifier in output satge
200	16	140	2N5631	140	7	15-60	2	8	2	16	4	TO-3	Audio amplifier
200	16	150	BDV67D	160	5	1K-	3	10	2	10	0.04	TO-3PN	Amplifier in output satge
200	17	180	2SC2922	180	5	50-	4	8	2	8	0.8	MT-200	Audio applications
200	-17	-180	2SA1216	-180	-5	30-	-4	-8	-2	-8	-0.8	MT-200	Audio applications
200	17	200	2SC2774	200	6	50-140	4	5	2	5	0.5	MT-200	Audio power amplifier
200	17	200	2SC3858	200	6	50-180	4	8	2.5	10	1	MT-200	Audio applications
200	-17	-200	2SA1170	-200	-6	20-	-4	-8	-2.5	-10	-1	MT-200	Audio applications
200	-17	-200	2SA1494	-200	-6	50-180	-4	-					

Power Transistors For TV

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _r (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
1.2	0.1	300	2SC3063	300	7	50-250	50	0.005	1.5	0.03	0.003	>70	TO-126	TV video output amplifier
1.5	0.1	300	2SC3619	300	7	30-200	10	0.02	1	0.01	0.001	>50	TO-126	Horizontal deflection output
2	0.1	300	2SC3229	300	5	30-200	10	0.02	1	0.01	0.001	>75	TO-220F	CTV chroma output
2	0.1	300	KTC3229	300	5	30-200	10	0.02	1	0.01	0.001	>75	TO-220F	CTV chroma output
4	0.1	300	2SC2258A	300	7	40-	20	0.04	1.2	0.05	0.005	100	TO-126	TV video output amplifier
6	0.1	300	2SC515	300	7	30-150	10	0.05	2	0.05	0.005		TO-66	CTV output circuits
8	0.1	300	2SC4544	300	7	30-200	10	0.02	1	0.01	0.001	70	TO-220F	Horizontal deflection output
8	-1.5	-25	2SA738	-25	-5	35-320	-2	-0.15	-0.5	-0.5	-0.05	160	TO-126	Driverstages
10	0.1	300	2SC2371	300	6	40-250	10	0.01	1.5	0.03	0.003	>50	TO-126	TV chroma and vertical output
10	0.15	250	2SC4448	250	5	40-200	10	0.01	1	0.05	0.005	240	TO-220F	HDTV chroma output
10	0.2	250	2SC1520	250	7	40-200	10	0.01	2	0.05	0.005	80	TO-202	CTV chroma and video output
10	0.2	300	2SC2688	300	5	40-250	10	0.01	1.5	0.05	0.005	>40	TO-126	CTV chroma output circuit
10	0.2	300	2SC4075	300	7	40-200	10	0.01	2	0.05	0.005	>50	TO-220F	TV output
10	1.5	80	BD230	100	5	40-250	2	0.15	0.8	1	0.1	125	TO-126	Driverstage in TV circuit
10	-1.5	-80	BD231	-100	-5	40-250	-2	-0.15	-0.8	-1	-0.1	50	TO-126	Driverstage in TV circuit
10	1.5	160	2SC3117	180	6	100-400	5	0.1	0.45	0.5	0.05	120	TO-126	CTV sound output
10	-1.5	-160	2SA1249	-180	-6	100-400	-5	-0.1	-0.5	-0.5	-0.05	120	TO-126	Color TV sound output
10	2.5	600	2SD200	1500	6	8-	5	0.5	8	2	0.6		TO-3	Horizontal output
10	2.5	700	BU205	1500		2-	5	2	5	2	1		TO-3	Horizontal deflection output
12.5	0.2	300	2SC1569	300	7	40-170	10	0.05	1	0.1	0.02	>40	TO-220	CTV chroma output
12.5	0.2	300	2SC1722	300	5	50-300	10	0.05	2	0.05	0.005	80	TO-220	TV horizontal/vertical driver
12.5	-0.7	-100	2SA775	-100	-4	50-	-4	-0.05						

Power Transistors For TV

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
25	-1.5	-150	2SA940	-150	-5	40-140	-10	-0.5	-1.5	-0.5	-0.05	4	TO-220	Vertical output
25	-1.5	-150	2SA1280	-150	-6	60-200	-4	-0.05	-3	-0.5	-0.05	>4	TO-220F	Color TV vertical output
25	2	150	2SC4381	150	6	60-	10	0.7	1	0.7	0.07	15	TO-220F	TV vertical output
25	2	150	2SD386A	200	6	40-320	2	0.5	1.5	1	0.1	8	TO-220	Vertical deflection output
25	2	150	2SD401	200	5	40-400	10	0.4	1	0.5	0.05	5	TO-220	Vertical output
25	2	150	2SD401A	200	5	40-200	10	0.4	1	0.5	0.05	5	TO-220	Vertical output
25	-2	-150	2SA1667	-150	-6	60-	-10	-0.7	-1	-0.7	-0.07	20	TO-220F	Vertical output
25	-2	-150	2SB546	-200	-5	40-240	-10	-0.4	-1	-0.5	-0.05	5	TO-220	Vertical output
25	-2	-150	2SB1096	-200	-5	40-200	-10	-0.4	-1	-0.5	-0.05	5	TO-220Fa	TV vertical output
25	2	200	2SC4382	200	6	60-	10	0.7	1	0.7	0.07	15	TO-220F	TV vertical output
25	-2	-200	2SA1668	-200	-6	60-	-10	-0.7	-1	-0.7	-0.07	20	TO-220F	Vertical output
25	3	120	2SD386	200	6	40-320	2	0.5	1	1	0.1	8	TO-220	Vertical deflection output
25	3	600	2SD849	1500	5	4-12	10	3	5	3	1		TO-3	Horizontal deflection output
25	3	700	2SD850	1500	5	4-15	10	2.5	4	2.5	0.8		TO-3	Horizontal deflection output
25	4	60	2SC508	180	6	20-	5	4	1.5	4	0.4		TO-66	TV horizontal output
30	1.5	150	2SD1459	150	5	70-200	5	0.3	1.5	0.5	0.05	8	TO-220	CTV vertical output
30	-1.5	-150	2SB1037	-150	-5	70-200	-5	-0.3	-1.5	-0.5	-0.05	15	TO-220	TV vertical output
30	2	150	2SC2167	150	6	50-	5	0.1	1	0.5	0.05	20	TO-220	TV vertical deflection
30	2	150	2SC2660	200	6	60-240	10	0.15	1	0.5	0.05		TO-220	TV vertical deflection
30	2	150	2SD478	200	6	60-320	4	0.05	3	0.5	0.05		TO-220	Vertical deflection output
30	2	150	2SD1138	200	6	60-320	4	0.05	3	0.5	0.05		TO-220	Vertical deflection output
30	2	150	2SD1264	200	6	60-240	10	0.15	1	0.5	0.05	20	TO-220Fa	TV vertical deflection output
30	-2	-150	2SA1133	-200	-6	60-240	-10	-0.15	-1	-0.5	-0.05		TO-220</	

Power Transistors For TV

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
40	3	600	2SD1910	1500	6	8-25	5	0.5	5	2.5	0.8		TO-3PML	Horizontal output
40	3.5	600	2SD1554	1500	5	8-	5	0.5	8	3	0.8	3	TO-3PHIS	CTV horizontal deflection output
40	3.5	600	2SD2089	1500	5	9-18	5	0.5	1	2.2	0.7	3	TO-3PHIS	Horizontal output
40	3.5	600	2SD2331	1500	5	8-	5	0.5	5	3	0.8	3	TO-3PFa	Horizontal output
40	3.5	600	2SD2599	1500	5	8-25	5	0.5	8	3	0.8	3	TO-3PHIS	Horizontal deflection output
40	4	60	2SC2233	200	5	30-150	5	1	1	4	0.4	8	TO-220	TV horizontal deflection output
40	4	100	2SD1137	100	4	50-250	4	0.5	1	1	0.1		TO-220	Vertical deflection output
40	-4	-100	2SB860	-100	-4	50-250	-4	-0.5	-1	-1	-0.1		TO-220	TV vertical deflection output
40	4	150	2SC3231	200	7	30-150	5	1	1	4	0.4	8	TO-220	TV horizontal output
40	4.5	60	2SD1159	200	6	30-160	5	1	1	4	0.4	10	TO-220	Horizontal deflection output
40	5	70	2SD362	150	8	20-140	5	5	1	5	0.5	10	TO-220	Horizontal deflection output
40	7	120	2SD1163	300	6	25-	5	5	2	5	0.5		TO-220	Horizontal deflection output
40	7	150	2SD1163A	350	6	25-	5	5	1	5	0.5		TO-220	Horizontal deflection output
40	7.5	100	2SC2373	200	7	15-70	5	5	1.5	5	0.5	>5	TO-220	B/W TV horizontal deflection
42	3		2SD950	1500	5	3-	10	2	5	2	0.75		TO-3	Horizontal deflection output
44	6	700	BUH315	1500	10	6-12	5	3	1.5	3	0.75		TO-3PML	Horizontal deflection
45	5	700	BU2506AF	1500		3.8-7.5	5	3	5	3	0.79		TO-3PFa	Horizontal deflection
45	5	700	BU2506AX	1500	7.5	3.8-7.5	5	3	5	3	0.79		TO-3PML	Horizontal deflection
45	5	700	BU2506DF	1500		3.8-7.5	5	3	5	3	0.79		TO-3PFa	Horizontal deflection
45	7	250	2N6078	275	6	12-70	1	1.2	1	5	0.5	7	TO-66	Horizontal deflection output
45	7	275	2N6077	300	6	12-70	1	1.2	1	5	0.5	7	TO-66	Horizontal deflection output
45	7	350	2N6079	375	6	12-70	1	1.2	1	5	0.5	7	TO-66	Horizontal deflection output
45	8	700	BU508AX	1500		6-30	5	0.1	1	4.5	1.6	7	TO-3PML	Horizontal deflection
45	8	700	BU508DX	1500	8	6-30	5	0.1	1	4.5				

Power Transistors For TV

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
45	12	825	BU2725AX	1700		4-8.5	1	7	1	7	1.75		TO-3PML	Horizontal deflection
45	12	825	BU2727AF	1700	7.5	5.5-11	1	5	1	5	0.91		TO-3PFa	Horizontal deflection
45	12	825	BU2727DF	1700	7.5	5.5-11	1	5	1	5	0.91		TO-3PFa	Horizontal deflection
50	1.5	600	2SD817	1500	6	10-30	5	0.3	5	1.2	0.3		TO-3	Horizontal deflection output
50	1.5		2SD1451	1500	6	6-	5	0.3	5	1.2	0.3		TO-3PN	TV horizontal deflection output
50	1.5	600	2SD1492	1500	6	10-30	5	0.3	5	1.2	0.3		TO-3PN	TV horizontal deflection output
50	2.5	600	2SC643	1100	5	7-	15	2	5	2	0.6	2	TO-3	CTV horizontal output
50	2.5	600	2SD868	1500	5	8-	5	0.5	8	2	0.6	3	TO-3	Horizontal deflection output
50	2.5	700	2SC643A	1500	5	5-	15	2	8	2	0.6	2	TO-3	CTV horizontal output
50	2.5	800	2SC1922	1500	6	8-40	5	0.5	5	2	0.6		TO-3	TV horizontal output
50	2.5	800	2SD1649	1500	6	8-	5	0.5	8	2	0.6	3	TO-3PML	CTV horizontal deflection output
50	2.5		2SD1452	1500	6	6-	5	0.3	5	2	0.6		TO-3PN	TV horizontal deflection output
50	3	600	2SD627	1500	6	5-25	10	2	10	2.5	0.6		TO-3	Horizontal deflection output
50	3	700	2SD2293	1500	6	8-	5	0.5	5	2.5	0.8		TO-3PN	Horizontal deflection output
50	3	800	2SC1942	1500	6	8-40	5	1	5	2.5	0.8		TO-3	TV horizontal output
50	3	800	2SD1876	1500	6	8-	5	0.5	5	2	0.6		TO-3PML	Horizontal deflection output
50	3	800	2SD1882	1500	6	8-	5	0.5	5	2	0.6		TO-3PML	Horizontal deflection output
50	3	1500	2SD898	1500	6	10-40	5	0.5	5	2.5	0.8		TO-3	Horizontal deflection output
50	3		2SD1290	1500	5	3-8	10	2	5	2	0.75		TO-3PN	CTV horizontal deflection output
50	3		2SD1439	1500	5	4-12	10	2	5	2	0.75		TO-3PN	Horizontal deflection output
50	3		2SD1453	1500	6	6-	5	0.3	5	2.5	0.8		TO-3PN	TV horizontal deflection output
50	3		2SD1541	1500	5	4-12	10	2	5	2	0.75		TO-3PFa	Horizontal deflection output
50	3.5	500	2SC1170	1200	6	10-	10	0.5	10	2.5	0.6	4	TO-3	Large screen color deflection
50	3.5	500	2SC1875	1500	6	10-35	10	0.5	10	2.5	0.6		TO-3	Large screen color def

Power Transistors For TV

P _C	I _C	V _{CE0}	Model	V _{CE0}	V _{EB0}	h _{FE}			V _{CE(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
50	6	500	2SC2365	600	6	12-	4	3	3	4	1.25	10	TO-3	Switch-mode CTV supply system
50	6	600	2SC4764	1500	5	5-9	5	4	5	4	0.8	3	TO-3PHIS	Horizontal deflection output
50	6	600	2SD821	1500	5	8-	5	1	5	5	1	3	TO-3	Horizontal output
50	6	600	2SD871	1500	5	8-	5	1	5	5	1	3	TO-3	Horizontal deflection output
50	6	600	2SD1344	1500	5	10-	5	0.5	5	4	0.8		TO-3	CTV horizontal deflection output
50	6	600	2SD1497	1500	7	10-30	5	0.3	5	5	1		TO-3PN	TV horizontal deflection output
50	6	600	2SD1546	1500	5	8-	5	1	5	5	1	3	TO-3PHIS	CTV horizontal deflection output
50	6	600	2SD1556	1500	5	8-	5	1	5	5	1	3	TO-3PHIS	CTV horizontal deflection output
50	6	600	2SD1941	1500	5	8-36	5	1	5	5	1		TO-3PML	Horizontal output
50	6	600	2SD2125	1500	5	8-20	5	1	5	5	1	3	TO-3PHIS	Horizontal output
50	6	600	2SD2253	1700	5	8-	5	1	5	5	1	3	TO-3PHIS	Horizontal output
50	6	600	2SD2498	1500	5	10-30	5	1	5	4	0.8	2	TO-3PHIS	Horizontal deflection output
50	6	600	2SD2499	1500	5	8-25	5	1	5	4	0.8	2	TO-3PHIS	Horizontal deflection output
50	6	800	2SD1399	1500	7	8-	5	1	5	5	1	3	TO-3PN	Horizontal deflection output
50	6		2SC4742	1500	6	-25	5	1	2	5	1.25		TO-3PN	Horizontal deflection output
50	6		2SD1456	1500	6	6-	5	1	5	5	1		TO-3PN	TV horizontal deflection output
50	7	200	2SC3591	400	6	10-50	1	5	0.8	5	0.5	>10	TO-220	Horizontal deflection output
50	7	400	2SC1308	1500	5	8-	5	1	5	6	1.2		TO-3	CTV horizontal output
50	7	600	2SC3892	1400	5	8-	5	1	5	5	1.2	3	TO-3PHIS	Horizontal deflection output
50	7	600	2SC3892A	1500	5	8-	5	1	5	5	1.2	3	TO-3PHIS	Horizontal deflection output
50	7	600	2SC4762	1500	5	5-9	5	5	5	5	1	3	TO-3PHIS	Horizontal deflection output
50	7	600	2SC4916	1500	5	8-20	5	1	5	5	1	3	TO-3PHIS	Horizontal deflection output
50	7	600	2SC5339	1500	5	10-30	5	1	5	5	1.25	2.4	TO-3PHIS	Horizontal deflection output
50	7	600	2SD725	1500	5	8-36	5	1	5	5	1		TO-3	Horizontal output
50	7	600	2SD1547	1500	5</									

Power Transistors For TV

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
50	10	600	2SD1279	1400	5	8-	5	2	5	8	2	3	TO-3	CTV horizontal deflection output
50	10	600	2SD1548	1400	5	8-	5	2	5	8	2	3	TO-3PHIS	CTV horizontal deflection output
50	10	600	2SD2349	1500	5	6-9	5	7	5	7	1.4	3	TO-3PHIS	Horizontal deflection output
50	10	600	2SD2500	1500	5	10-30	5	1	3	6	1.5	1.7	TO-3PHIS	Horizontal deflection output
50	10	700	2SC5143	1700	5	8-	5	1	3	6	1.5	2	TO-3PHIS	Horizontal deflection output
50	10	700	2SC5150	1700	5	10-28	5	1	3	6	1.5	2	TO-3PHIS	Horizontal deflection output
50	10	800	2SC4589	1500	5	8-	5	1	5	8	1.6		TO-3PML	Horizontal deflection output
50	10	800	2SC4747	1500	6	8-30	5	1	5	8	1.6		TO-3PML	Horizontal deflection output
50	10	800	2SC4878	1500	5	8-	5	1	5	8	1.6		TO-3PML	TV horizontal deflection output
50	12	600	2SC5048	1500	5	10-30	5	1	3	8	2	1.7	TO-3PHIS	Horizontal deflection output
57	10	700	BUH713	1300	10	8-	5	7	1.5	7	1.5		TO-3PML	Horizontal deflection
57	10	700	BUH715	1500	10	8-16	5	7	1.5	7	1.5		TO-3PML	Horizontal deflection
57	10	700	BUH715AF	1500	10	8-16	5	7	1.5	7	1.5		TO-3PFa	Horizontal deflection
60	3.5	700	2SD1729	1500	7	5-25	5	0.5	8	3	0.8	2	TO-3PN	Horizontal deflection output
60	3.5	700	2SD1846	1500	7	5-25	5	0.5	8	3	0.8	2	TO-3PFa	Horizontal deflection output
60	5	800	2SD1651	1500	6	8-	5	1	5	4	0.8	3	TO-3PML	CTV horizontal output
60	5	800	2SD1655	1500	6	8-	5	1	5	4	0.8	3	TO-3PML	Horizontal deflection output
60	5	800	2SD1878	1500	6	8-	5	1	5	4	0.8		TO-3PML	Horizontal deflection output
60	5	800	2SD1884	1500	6	8-	5	1	5	4	0.8		TO-3PML	Horizontal deflection output
60	5	800	2SD5072	1500	6	8-	5	1	5	4	0.8	3	TO-3PML	Horizontal output
60	5	800	2SD5076	1500	6	8-	5	1	5	4	0.8	3	TO-3PML	Horizontal output
60	6	800	2SC3894	1500	6	8-	5	1	5	4	1		TO-3PML	Horizontal deflection output
60	6	800	2SD1652	1500	6	8-	5	1	5	5	1	3	TO-3PML	CTV horizontal deflection output
60	6	800	2SD1879	1500	6	8-	5	1	5	5	1		TO-3PML	Horizontal deflection output
60	6													

Power Transistors For TV

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
70	8	800	2SC4124	1500	6	4-6	5	6	5	6	1.5		TO-3PML	Horizontal deflection output
70	8	800	2SC4923	1500	6	8-	5	1	5	6	1.5		TO-3PML	Horizontal deflection output
70	8	800	2SD1880	1500	6	8-	5	1	5	6	1.2		TO-3PML	Horizontal deflection output
70	8	800	2SD1886	1500	6	8-	5	1	5	6	1.2		TO-3PML	Horizontal deflection output
70	10	400	2SC3842	600	6	10-40	5	5	1	5	1	32	TO-3PML	TV horizontal output
70	10	800	2SC3897	1500	6	8-	5	1	5	8	2		TO-3PML	Horizontal deflection output
70	10	800	2SC4924	1500	6	8-	5	1	5	8	2		TO-3PML	Horizontal deflection output
70	10	800	2SC5299	1500	6	20-30	5	1	5	8	2		TO-3PML	Horizontal deflection output
70	10	800	2SD1881	1500	6	8-	5	1	5	8	1.6		TO-3PML	Horizontal deflection output
70	10	800	2SD1887	1500	6	8-	5	1	5	8	1.6		TO-3PML	Horizontal deflection output
70	10	800	2SD2580	1500	6	15-30	5	1	5	8	1.6		TO-3PML	Horizontal deflection output
75	2.5	700	BU505	1500	5	6-30	5	0.1	5					

Power Transistors For TV

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
100	10	200	BUY69C	500	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	Horizontal deflection
100	10	325	BUY69B	800	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	Horizontal deflection
100	10	400	BU626A	1000	7	15-	10	2.5	3.3	8	2.5	6	TO-3	Power supply units of TV receiver
100	10	400	BUY69A	1000	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	Horizontal deflection
100	10	800	2SC5124	1500	6	8-	5	1	5	8	2	3	TO-3PML	Horizontal deflection output
100	12	900	2SC4880	1700	5	8-40	5	1	5	10	2.5		TO-3PML	Horizontal deflection output
100	15	500	2SC3638	900	7	8-	5	1.4	2	7	1.4		TO-3PN	Horizontal deflection output
113	6	375	BU426	800	10	-60	5	0.6	3	4	1.25		TO-3PN	Switch-mode CTV supply system
113	6	400	BU426A	900	10	-60	5	0.6	3	4	1.25		TO-3PN	Switch-mode CTV supply system
120	5	800	2SD1398	1500	7	8-	5	1	5	4	0.8	3	TO-3PN	Horizontal deflection output

Power Transistors For Switch-mode Power Supplies

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
25	1	300	2SD198	300	6	30-300	5	0.1	1	1	0.1	25	TO-3	Switching power supply
36	5	500	BUL310FP	1000	9	10*	2.5	3	1.1	3	0.6		TO-220F	Switching power supply
39	7.5	450	BUF405AFP	1000	7				0.5*	5	1		TO-220F	Off-line switching power supply
40	1	250	TIP47	350	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Switching power supply driver
40	1	300	TIP48	400	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Switching power supply driver
40	1	350	TIP49	450	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Switching power supply driver
40	1	400	TIP50	500	5	30-150	10	0.3	1	1	0.2	>10	TO-220	Switching power supply driver
40	2	400	BUX84	800	10	20-100	5	0.1	3	1	0.2	20	TO-220	Switching power supply
40	2	450	BUX85	1000	10	20-10								

Power Transistors For Switch-mode Power Supplies

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
100	10	450	BUL510	1000	9	15-45	5	1	1.5	5	1.25		TO-220	Switching power supply
100	-10	-180	2SA1180	-180	-6	30-	-4	-5	-2	-5	-0.5		TO-3	Power switching amplifier
110	12	400	BUT76	850	7	3.2-	3	8	1.5	6	1.2	7	TO-220	Switching power supply
110	12	450	BUT76A	1000	7	3.2-	3	8	1.5	5	1	7	TO-220	Switching power supply
120	7	200	2N6510	250	7	10-50	3	4	1	5	1	3	TO-3	Switching power supply
120	7	250	2N6511	400	7	10-50	3	4	1	5	1	3	TO-3	Switching power supply
120	7	300	2N6512	400	7	10-50	3	4	1	5	1	3	TO-3	Switching power supply
120	7	300	2N6514	350	7	10-50	3	5	1	5	1	3	TO-3	Switching power supply
120	7	350	2N6513	400	7	10-50	3	4	1	5	1	3	TO-3	

Transistors For Energy-saving Lamp And Electronic Ballast

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
20	5	60	2SC3746	80	5	70-280	2	1	0.4	2.5	0.125	100	TO-220F	Inductance lamp drivers
20	-5	-60	2SA1469	-80	-5	70-280	-2	-1	-0.4	-2.5	-0.125	100	TO-220F	Inductance lamp drivers
25	-7	-60	2SA1470	-80	-5	70-280	-2	-1	-0.4	-3.5	-0.175	100	TO-220F	Inductance lamp drivers
30	-3	-60	2SA1288	-80	-5	70-280	-2	-0.5	-0.4	-1.5	-0.075	100	TO-220	Inductance lamp drivers
30	-4	-60	2SA489	-70	-5	40-240	-5	-0.5	-1	-3	-0.3	>3	TO-220	Inductance lamp drivers
30	-4	-70	2SA1355	-70	-5	70-280	-2	-1	-0.5	-2	-0.2	40	TO-220	Inductance lamp drivers
30	5	60	2SC3253	80	5	70-280	2	1	0.4	2.5	0.125	100	TO-220	Inductance lamp drivers
30	-5</													

Power Transistors For Igniter

P _C (W)	I _C (A)	V _{ceo} (V)	Model	V _{cbo} (V)	V _{ebo} (V)	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
						V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP			
25	3	600	2SC5417	1200	9	30-50	5	0.1	1	1.5	0.3		TO-220F	Lighting inverter
25	4	200	2SD834	250	10	1.5K-	2	2	1.5	2	0.002		TO-220	Electronic ignitor
25	4	450	2SC5416	1000	9	30-50	5	0.1	1	2	0.4		TO-220F	Lighting inverter
25	6	400	2SD1409	600	5	600-	2	2	2	4	0.04		TO-220Fa	Lighting inverter
30	6	250	2SD1088	300	5	2K-	2	2	2	4	0.04		TO-220	Switching ignitor
30	6	300	2SD7											

Power Transistors for Ultrasonic

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
15	2	400	2SC2333	500	7	20-80	5	0.1	1	0.5	0.1		TO-220	
40	3	800	2SC3866	900	10	10-	5	1	1	1	0.2		TO-220Fa	
40	5	200	2SC2767	250	7	20-80	5	1	0.2	2	0.8		TO-220	
40	5	400	2SC2440	450	7	15-	5	2	0.8	2	0.4		TO-220	
40	5	400	2SC3317	500	7	10-	5	2	1	2	0.4		TO-220	
40	5	400	2SC3723	450	10	10-	5	2	0.8	2	0.4		TO-220	
40	6	200	2SC2768	250	7	20-	5	1	0.5	2	0.8		TO-220	
40	6	500	2SC3047	850	10	15-	5	0.5	0.5	2	0.4		TO-220</	

Power Transistors For General Purpose Use

P _C (W)	I _C (A)	V _{ceo} (V)	Model	V _{cbo} (V)	V _{ebo} (V)	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
						V _{CE} (V)	I _C (A)		max	I _C (A)	I _B (A)	TYP		
1.2	0.05	150	2SC1953	150	5	90-450	5	0.01	1	0.03	0.003	>70	TO-126	Low frequency power pre-amplifier
1.2	0.5	100	2SC1567	100	5	65-330	10	0.15	0.4	0.5	0.05	120	TO-126	Low frequency power amplifier
1.2	-0.5	-100	2SA794	-100	-5	90-220	-10	-0.15	-0.4	-0.5	-0.05	120	TO-126	Low frequency driver
1.2	0.5	120	2SC1567A	120	5	65-330	10	0.15	0.4	0.5	0.05	120	TO-126	Low frequency power amplifier
1.2	0.5	120	2SC2590	120	5									

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)												

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W														

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (
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Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package
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Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)	
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Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)	
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Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce}
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Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model
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Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
30	7	400	2SC4130	500	10	10-30	4	3	0.5	3	0.6	15	TO-220F	General purpose
30	8	30	2SD1235	60	6	70-280	2	1	0.4	3	0.15	120	TO-220	Driver
30	8	100	2SD2025	100	7	1K-	3	2	1.5	3	0.006	40	TO-220Fa	Power amplifier/Driver
30	-8	-100	2SB1344	-100	-7	1K-	-3	-2	-1.5	-3	-0.006	12	TO-220Fa	Low frequency power amplifier
30	-8	-200	2SA1250	-200	-7	40-200	-1	-2	-1.5	-5	-0.5		TO-66	General-purpose amplifier
30	10	60	2SC3693	100	7	100-400	2	2	0.5	8	0.4	140	TO-220Fa	Driver
30	10	60	2SC3748	80	5	70-280	2	1	0.4	5	0.25	100	TO-220F	Power amplifier and driver
30	10	60	2SD1827	70	6	2K-	2	5	1.5	5	0.01		TO-220F	General-purpose driver
30	-10	-60	2SA1471	-80	-5	70-280	-2	-1	-0.4	-5	-0.25	100	TO-220F	Power amplifier
30	-10	-60	2SB1225	-70	-6	2K-	-2	-5	-1.5	-5	-0.01		TO-220F	Driver
30	10	80	2SD2151	130	7	90-260	2	3	1.5	10	1	20	TO-220Fa	Power amplifier
30	10	100	2SC3568	150	7	40-200	5	3	0.6	5	0.5		TO-220Fa	High frequency power amplifier
30	10	100	2SC4336	100	7	100-400	2	2	0.5	8	0.4	150	TO-220Fa	Driver
30	10	100	2SD1591	150	7	1K-	2	10	1.5	10	0.025		TO-220Fa	Low frequency power amplifier
30	-10	-100	2SA1396	-100	-7	40-200	-5	-3	-0.6	-5	-0.5		TO-220Fa	High frequency power amplifier
30	10	200	2SD2101	200	7	1.5K-	3	5	3	10	0.1		TO-220Fa	Power amplifier
30	12	50	2SD1669	60	6	70-280	2	1	0.4	6	0.6	10	TO-220F	High-current switching
30	-12	-50	2SB1136	-60	-6	70-280	-2	-1	-0.4	-6	-0.6	10	TO-220F	Relay driver
30	15	60	2SC3694	100	7	100-400	2	3	0.5	12	0.6	120	TO-220Fa	Driver
30	15	60	2SC4552	100	7	100-400	2	3	0.5	12	0.6	120	TO-220F	Driver
32	5	450	BUT11AX	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-220F	Converter/Inverter /Motor control
33	6	400	BUT18F	850	9	10-35	5	1	1.5	4	0.8		TO-220Fa	Converter/Inverter /Motor control
33	6	450	BUT18AF	1000	9	10-35	5	1	1.5	4	0.8		TO-220Fa	Converter/Inverter /Motor control
35	0.75	250	2SD1263	350	5	70-250	10	0.3	1	1	0.2	30	TO-220Fa	Power amplifier
35	0.75	300	2SD1263A	400	5	70-250	10	0.3	1	1	0.2	30	TO-220Fa	Power amplifier
35	2	60	2SD1275	60	5	2K-	4	2	2.5	2	0.008	20	TO-220Fa	Power amplifier
35	2	80	2SD1275A	80	5	2K-	4	2	2.5	2	0.008	20	TO-220Fa	Power amplifier
35	2	300	2N3585	500	6	25-100	10	1	0.75	1	0.125		TO-66	Switching regulator
35	3	60	2SD1266	60	6	70-250	4	1	1.2	3	0.375	30	TO-220Fa	Power amplifier
35	-3	-60	2SB761	-60	-5	40-250	-4	-1	-1.2	-3	-0.375		TO-220	Power amplifier
35	-3	-60	2SB941	-60	-5	70-250	-4	-1	-1.2	-3	-0.375	30	TO-220Fa	Low frequency power amplifier
35	3	80	2SD1266A	80	6	70-250	4	1	1.2	3	0.375	30	TO-220Fa	Power amplifier
35	-3	-80	2SB761A	-80	-5	40-250	-4	-1	-1.2	-3	-0.375		TO-220	Power amplifier
35	-3	-80	2SB941A	-80	-5	70-250	-4	-1	-1.2	-3	-0.375	30	TO-220Fa	Low frequency power amplifier
35	3	600	2SC5249	600	7	20-40	4	1	0.5	1	0.2	6	TO-220F	General purpose
35	3	800	2SC4304	900	7	10-30	4	0.7	0.5	0.7	0.14	15	TO-220F	General purpose
35	3	800	2SC4908	900	7	10-30	4	0.7	0.5	0.7	0.14	6	TO-220F	General purpose
35	4	60	2SD2000	80	6	70-250	4	1	1.5	4	0.4	80	TO-220Fa	Power switching
35	4	90	2N6500	120	7	15-60	2	3	1.5	3	0.3	<175	TO-66	Amplifier/High-speed switching
35	-5	-100	2SB885	-110	-6	1500-	-3	-2.5	-1.5	-2.5	-0.005	20	TO-220	Motor drivers
35	5	550	2SC4518	900	7	10-25	4	1.8	0.5	1.8	0.36	6	TO-220F	Power amplifier
35	5	550	2SC4518A	1000	7	10-25	4	1.8	0.5	1.8	0.36	6	TO-220F	Power amplifier
35	6	250	2SD2017	300	20	2K-	2	2	1.5	2	0.002	20	TO-220F	Power switching
35	7	60	2SC3254	80	5	70-280	2	1	0.4	3.5	0.175	100	TO-220	Power amplifier
35	-7	-60	2SA1290	-80	-5	70-280	-2	-1	-0.4	-3.5	-0.175	100	TO-220	Power amplifier
35	12	30	2SD1212	60	6	70-280	2	1	0.4	5	0.25	120	TO-220	Driver
35	12	30	2SD1212	60	6	70-280	2	1	0.4	5	0.25	120	TO-220	Driver/inverter/Converter/Switching
35	12	50	2SC4064	50	6	50-	1	6	0.35	6	0.3	40	TO-220F	DC motor driver,general purpose
35	-12	-50	2SA1567	-50	-6	50-	-1	-6	-0.35	-6	-0.3	40	TO-220F	General purpose
35	15		BUX37	400	7	100-	5	8	2	10	0.15		TO-3	Power switching/Driver/Regulator
36	4	22	BD433	22	5	85-140	1	0.5	0.5	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-22	BD434	-22	-5	85-140	-1	-0.5	-0.5	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	4	32	BD435	32	5	85-140	1	0.5	0.5	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-32	BD436	-32	-5	85-140	-1	-0.5	-0.5	-2	-0.2	>3	TO-126	Switching/Medium power linear

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
36	4	40	2N5295	60	7	30-120	4	1	1	1	0.1	>0.8	TO-220	Power amplifier/Switching
36	4	40	2N5296	60	7	30-120	4	1	1	1	0.1	>0.8	TO-220	Power amplifier/Switching
36	4	45	BD437	45	5	85-140	1	0.5	0.6	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-45	BD438	-45	-5	85-140	-1	-0.5	-0.6	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	4	60	2N5297	80	7	20-80	4	1.5	1	1.5	0.15	>0.8	TO-220	Power amplifier/Switching
36	4	60	2N5298	80	7	20-80	4	1.5	1	1.5	0.15	>0.8	TO-220	Power amplifier/Switching
36	4	60	BD439	60	5	40-140	1	0.5	0.8	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-60	BD440	-60	-5	40-140	-1	-0.5	-0.8	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	4	70	2N5293	80	7	30-120	4	0.5	1	0.5	0.05	>0.8	TO-220	Power amplifier/Switching
36	4	70	2N5294	80	7	30-120	4	0.5	1	0.5	0.05	>0.8	TO-220	Power amplifier/Switching
36	4	80	BD441	80	5	40-140	1	0.5	0.8	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-80	BD442	-80	-5	40-140	-1	-0.5	-0.8	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	8	80	2N6534	80	5	1K-10K	3	5	3	8	0.08		TO-66	Driver/Regulator/Amplifier
36	8	100	2N6535	100	5	500-10K	3	3	3	8	0.08		TO-66	Driver/Regulator/Amplifier
36	8	100	2N6536	100	5	1K-10K	3	5	3	8	0.08		TO-66	Driver/Regulator/Amplifier
36	8	120	2N6537	120	5	1K-10K	3	3	3	8	0.08		TO-66	Driver/Regulator/Amplifier
39	7.5	450	BUF405AFP	1000	7				0.5*	5	1		TO-220F	Motor driver
40	1	300	2SC1050	300	6	30-200	5	0.3	1.2	0.5	0.1		TO-3	General purpose
40	2	125	2N5050	125	7	25-100	5	0.75	1.2	2	0.5	10	TO-66	Switching and amplifier
40	2	150	2N5051	150	7	25-100	5	0.75	1.2	2	0.5	10	TO-66	Switching and amplifier
40	2	200	2N5052	200	7	25-100	5	0.75	1.2	2	0.5	10	TO-66	Switching and amplifier
40	2	300	2SC2023	300	6	30-	4	0.5	1	1	0.2	10	TO-220	General purpose
40	3	40	TIP31	40	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-40	TIP32	-40	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	3	45	BD241	55	5	25-	4	1	1.2	3	0.6		TO-220	Switching/Medium power linear
40	-3	-45	BD242	-55	-5	25-	-4	-1	-1.2	-3	-0.6		TO-220	Switching/Medium power linear
40	3	60	2SD2023	80	6	60-320	5	1	1	2	0.2	8	TO-220	Power amplifier/Driver
40	3	60	BD241A	70	5	25-	4	1	1.2	3	0.6		TO-220	Switching/Medium power linear
40	3	60	TIP31A	60	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-60	2SB1033	-60	-5	60-320	-5	-0.5	-1.5	-2	-0.2	12	TO-220	Low frequency power amplifier
40	-3	-60	2SB1369	-60	-5	100-320	-5	-0.5	-1.5	-2	-0.2	15	TO-220	General purpose
40	-3	-60	BD242A	-70	-5	25-	-4	-1	-1.2	-3	-0.6		TO-220	Switching/Medium power linear
40	-3	-60	TIP32A	-60	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	3	80	BD241B	90	5	25-	4	1	1.2	3	0.6		TO-220	Switching/Medium power linear
40	3	80	TIP31B	80	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-80	BD242B	-90	-5	25-	-4	-1	-1.2	-3	-0.6		TO-220	Switching/Medium power linear
40	-3	-80	TIP32B	-80	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	3	100	BD241C	115	5	25-	4	1	1.2	3	0.6		TO-220	Switching/Medium power linear
40	3	100	TIP31C	100	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-100	BD242C	-115	-5	25-	-4	-1	-1.2	-3	-0.6		TO-220	Switching/Medium power linear
40	-3	-100	TIP32C	-100	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	3	400	2SD841	800	5	10-	5	0.5	1	0.5	0.05	4	TO-220	High voltage switching
40	3	800	2SC3549	900	10	10-	5	1	1	1	0.2		TO-220	Power amplifier
40	3	800	2SC3866	900	10	10-	5	1	1	1	0.2		TO-220Fa	Power amplifier
40	4	40	2N5190	40	5	25-100	2	1.5	1.2	4	1	>2	TO-126	Medium-power switching
40	4	40	2N6037	40	5	750-15K	3	2	3	4	0.04		TO-126	Amplifier/Low-speed switching
40	-4	-40	2N5193	-40	-5	25-100	-2	-1.5	-1.2	-4	-1	>2	TO-126	Medium-power switching
40	-4	-40	2N6034	-40	-5	750-15K	-3	-2	-3	-4	-0.04		TO-126	Amplifier/Low-speed switching
40	-4	-40	MJE371	-40	-4	40-	-1	-1	-0.5	-2	-0.2		TO-126	Amplifier and switching circuits
40	4	45	2N6121	45	5	25-100	2	1.5	1.4	4	1	>2.5	TO-220	Power amplifier and switching
40	-4	-45	2N6124	-45	-5	25-100	-2	-1.5	-1.4	-4	-1	>2.5	TO-220	Power amplifier and switching
40	4	50	2SD476	70	5	60-200	4	1	1	2	0.2	7	TO-220	Switching/Low-frequency amplifier
40	4	50	2SD1133	70	5	60-320	4	1	1	2	0.2	7	TO-220	Low frequency power amplifier
40	-4	-50	2SB566	-70	-5	60-200	-4	-1	-1	-2	-0.2	15	TO-220	Low frequency power amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
40	-4	-50	2SB857	-70	-5	60-320	-4	-1	-1	-2	-0.2	15	TO-220	Low frequency power amplifier
40	4	60	2SD1267	60	5	70-250	4	1	1.5	4	0.4	20	TO-220Fa	Power amplifier
40	4	60	2SD1276	60	5	2K-	3	3	4	5	0.02	20	TO-220Fa	Power amplifier
40	4	60	2SD476A	70	5	60-200	4	1	1	2	0.2	7	TO-220	Switching/Low-frequency amplifier
40	4	60	2SD1134	70	5	60-320	4	1	1	2	0.2	7	TO-220	Low frequency power amplifier
40	4	60	2N5191	60	5	25-100	2	1.5	1.2	4	1	>2	TO-126	Medium-power switching
40	4	60	2N6038	60	5	750-15K	3	2	3	4	0.04		TO-126	Amplifier/Low-speed switching
40	4	60	2N6122	60	5	25-100	2	1.5	1.4	4	1	>2.5	TO-220	Power amplifier and switching
40	4	60	MJE800	60	5	750-	3	1.5	3	4	0.04		TO-126	Amplifier/Low-speed switching
40	4	60	MJE801	60	5	750-	3	1.5	3	4	0.04		TO-126	Amplifier/Low-speed switching
40	-4	-60	2SB566A	-70	-5	60-200	-4	-1	-1	-2	-0.2	15	TO-220	Low frequency power amplifier
40	-4	-60	2SB762	-60	-5	40-250	-4	-1	-1.5	-4	-0.4		TO-220	Power amplifier
40	-4	-60	2SB858	-70	-5	60-320	-4	-1	-1	-2	-0.2	15	TO-220	Low frequency power amplifier
40	-4	-60	2SB942	-60	-5	70-250	-4	-1	-1.5	-4	-0.4	30	TO-220Fa	Low frequency power amplifier
40	-4	-60	2SB1101	-60	-7	1K-	-3	-2	-3	-4	-0.04		TO-220	Low frequency power amplifier
40	-4	-60	2N5194	-60	-5	25-100	-2	-1.5	-1.2	-4	-1	>2	TO-126	Medium-power switching
40	-4	-60	2N6035	-60	-5	750-15K	-3	-2	-3	-4	-0.04		TO-126	Amplifier/Low-speed switching
40	-4	-60	2N6125	-60	-5	25-100	-2	-1.5	-1.4	-4	-1	>2.5	TO-220	Power amplifier and switching
40	-4	-60	BD190	-70	-5	40-	-2	-0.5	-1	-2	-0.2	>2	TO-126	Medium power linear/Switching
40	4	80	2SC3557	80	5	150-	1	0.2	1.5	3	0.3		TO-220	Medium power amplifier
40	4	80	2SD1267A	80	5	70-250	4	1	1.5	4	0.4	20	TO-220Fa	Power amplifier
40	4	80	2SD1276A	80	5	2K-	3	3	4	5	0.02	20	TO-220Fa	Power amplifier
40	4	80	2SD743	100	5	40-200	5	0.5	2	3	0.3	>10	TO-220	Amplifier/Low-speed switching
40	4	80	2SD1135	100	5	60-200	5	1	2	2	0.2	10	TO-220	Low frequency power amplifier
40	4	80	2N5192	80	5	20-80	2	1.5	1.2	4	1	>2	TO-126	Medium-power switching
40	4	80	2N6039	80	5	750-15K	3	2	3	4	0.04		TO-126	Amplifier/Low-speed switching
40	4	80	2N6123	80	5	20-80	2	1.5	1.4	4	1	>2.5	TO-220	Power amplifier and switching
40	4	80	MJE802	80	5	750-	3	2	3	4	0.04		TO-126	Amplifier/Low-speed switching
40	4	80	MJE803	80	5	750-	3	2	3	4	0.04		TO-126	Amplifier/Low-speed switching
40	-4	-80	2SA1634	-80	-5	60-320	-4	-1	-1.5	-2	-0.2	12	TO-220	Medium power amplifier
40	-4	-80	2SB762A	-80	-5	40-250	-4	-1	-1.5	-4	-0.4		TO-220	Power amplifier
40	-4	-80	2SB859	-100	-5	60-200	-5	-1	-2	-2	-0.2	20	TO-220	Low frequency power amplifier
40	-4	-80	2SB942A	-80	-5	70-250	-4	-1	-1.5	-4	-0.4	30	TO-220Fa	Low frequency power amplifier
40	-4	-80	2SB1102	-80	-7	1K-	-3	-2	-3	-4	-0.04		TO-220	Low frequency power amplifier
40	-4	-80	2N5195	-80	-5	20-80	-2	-1.5	-1.2	-4	-1	>2	TO-126	Medium-power switching
40	-4	-80	2N6036	-80	-5	750-15K	-3	-2	-3	-4	-0.04		TO-126	Amplifier/Low-speed switching
40	-4	-80	2N6126	-80	-5	20-80	-2	-1.5	-1.4	-4	-1	>2.5	TO-220	Power amplifier and switching
40	4	100	2SD743A	100	5	40-200	5	0.5	2	3	0.3	>10	TO-220	Amplifier/Low-speed switching
40	4	100	2SD1137	100	4	50-250	4	0.5	1	1	0.1		TO-220	Low frequency power amplifier
40	4	100	2N6473	110	5	15-150	4	1.5	2.5	4	2	>4	TO-220	Switching and amplifier
40	-4	-100	2SB860	-100	-4	50-250	-4	-0.5	-1	-1	-0.1		TO-220	Low frequency power amplifier
40	-4	-100	2N6475	-110	-5	15-150	-4	-1.5	-1.2	-1.5	-0.15	>4	TO-220	Switching and amplifier
40	4	120	2N6474	130	5	15-150	4	1.5	2.5	4	2	>4	TO-220	Switching and amplifier
40	-4	-120	2N6476	-130	-5	15-150	-4	-1.5	-1.2	-1.5	-0.15	>5	TO-220	Switching and amplifier
40	4	150	2SC3231	200	7	30-150	5	1	1	4	0.4	8	TO-220	Power amplifier
40	4.5	60	2SD1159	200	6	30-160	5	1	1	4	0.4	10	TO-220	High current switching
40	5	22	BD943	22	7	85-475	1	0.5	0.5	2	0.2	>3	TO-220	Switching/Medium power linear
40	5	60	BD949	60	7	40-	4	0.5	1	2	0.2	>3	TO-220	Switching/Medium power linear
40	5	80	2SD1274	150	6	14-	4	5	1.6	5	1	40	TO-220Fa	Power amplifier
40	5	80	2SD1274A	200	6	14-	4	5	1.6	5	1	40	TO-220Fa	Power amplifier
40	5	80	2SD1274B	250	6	14-	4	5	1.6	5	1	40	TO-220Fa	Power amplifier
40	5	80	2SD772	150	6	14-	4	5	1.6	5	1	40	TO-220	Power amplifier
40	5	80	2SD772A	200	6	14-	4	5	1.6	5	1	40	TO-220	Power amplifier
40	5	80	2SD772B	250	6	14-	4	5	1.6	5	1	40	TO-220	Power amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
40	5	100	2SD1499	100	5	40-200	5	1	2	3	0.3	20	TO-220Fa	High power amplifier
40	5	100	2SD525	100	5	40-240	5	1	2	4	0.4	12	TO-220	Power amplifier
40	5	100	BD953	100	7	40-	4	0.5	1	2	0.2	>3	TO-220	Switching/Medium power linear
40	-5	-100	2SB595	-100	-5	40-240	-5	-1	-2	-4	-0.4	5	TO-220	Power amplifier
40	-5	-100	2SB1063	-100	-5	40-200	-5	-1	-2	-3	-0.3	20	TO-220Fa	High power amplifier
40	5	200	2SC2767	250	7	20-80	5	1	0.2	2	0.8		TO-220	Power amplifier
40	5	400	2SC2440	450	7	15-	5	2	0.8	2	0.4		TO-220	General amplifier
40	5	400	2SC2542	450	7	10-	5	2	1.2	2	0.4		TO-220	Power amplifier
40	5	400	2SC3317	500	7	10-	5	2	1	2	0.4		TO-220	Power amplifier
40	5	400	2SC3723	450	10	10-	5	2	0.8	2	0.4		TO-220	Power amplifier
40	5	400	2SC3962	500	7	15-50	5	0.5	0.5	2	0.4		TO-220	General purpose
40	5	400	2SC4273	500	10	25-	5	0.5	0.8	2	0.4		TO-220	General purpose
40	5	400	2SC4507	500	7	25-65	5	0.5	0.8	2	0.4		TO-220F	Power amplifier
40	5	400	BUT11F	850	9	10-35	5	0.5	1.5	3	0.6		TO-220Fa	Converter/Inverter /Motor control
40	5	450	BUT11AF	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-220Fa	Converter/Inverter /Motor control
40	6	40	2N6374	50	6	20-100	2	3	1.2	6	0.6	4	TO-66	Switching and amplifier
40	-6	-40	2N5956	-50	-5	20-100	-4	-3	-1	-3	-0.3	>5	TO-66	Switching and amplifier
40	6	60	2SC1985	80	6	40-	4	1	1	3	0.3	10	TO-220	General and industrial purpose
40	6	60	2N6373	70	6	20-100	2	2.5	1.2	6	0.6	4	TO-66	Switching and amplifier
40	-6	-60	2SA764	-60	-6	50-	-4	-1	-1.5	-4	-0.4	10	TO-66	Power amplifier
40	-6	-60	2SA770	-60	-6	40-	-4	-1	-1	-3	-0.3	10	TO-220	Industrial purpose
40	-6	-60	2N5955	-70	-5	20-100	-4	-2.5	-1	-2.5	-0.25	>5	TO-66	Switching and amplifier
40	6	80	2SC1986	100	6	40-	4	1	1	3	0.3	10	TO-220	General and industrial purpose
40	6	80	2N6372	90	6	20-100	2	2	1.2	6	0.6	4	TO-66	Switching and amplifier
40	-6	-80	2SA765	-80	-6	50-	-4	-1	-1.5	-4	-0.4	10	TO-66	Power amplifier
40	-6	-80	2SA771	-80	-6	40-	-4	-1	-1	-3	-0.3	10	TO-220	Industrial purpose
40	-6	-80	2N5954	-90	-5	20-100	-4	-2	-1	-2	-0.2	>5	TO-66	Switching and amplifier
40	6	120	2SD768	120	7	1K-	3	3	3	6	0.06		TO-220	Medium speed and power switching
40	6	120	2SD1888	120	6	2K-	3	2	1.5	3	0.006	40	TO-220	Power amplifier
40	-6	-120	2SB727K	-120	-7	1K-	-3	-3	-3	-6	-0.06		TO-220	Medium speed
40	-6	-120	2SB1106	-120	-7	1K-	-3	-3	-3	-6	-0.06		TO-220	Low frequency power amplifier
40	6	200	2SC2768	250	7	20-	5	1	0.5	2	0.8		TO-220	Power amplifier
40	6	500	2SC3047	850	10	15-	5	0.5	0.5	2	0.4		TO-220	Power amplifier
40	7	30	2N6288	40	5	30-150	4	3	3.5	7	3	>2.5	TO-220	Power amplifier and switching
40	-7	-30	2SA1129	-30	-7	40-200	-1	-3	-0.3	-3	-0.1		TO-220	Low-frequency power amplifier
40	-7	-30	2SA1640	-30	-5	100-300	-2	-0.2	-0.4	-3	-0.1	>20	TO-220F	Power amplifier
40	-7	-30	2N6106	-40	-5	30-150	-4	-2	-3.5	-7	-3	>10	TO-220	Power amplifier and switching
40	-7	-30	2N6111	-40	-5	30-150	-4	-3	-3.5	-7	-3	>10	TO-220	Power amplifier and switching
40	7	50	2SD553	70	5	70-240	1	1	0.4	4	0.4	10	TO-220	Switching/Power amplifier
40	7	50	2SD1061	60	6	70-280	2	1	0.4	4	0.4	10	TO-220	Relay driver/Inverter/Converter
40	7	50	2N6290	60	5	30-150	4	2.5	3.5	7	3	>2.5	TO-220	Power amplifier and switching
40	7	50	2N6291	60	5	30-150	4	2.5	3.5	7	3	>10	TO-220	Power amplifier and switching
40	-7	-50	2SB553	-70	-5	70-240	-1	-1	-0.4	-4	-0.4	10	TO-220	Power amplifier
40	-7	-50	2N6108	-60	-5	30-150	-4	-2.5	-3.5	-7	-3	>10	TO-220	Power amplifier and switching
40	-7	-50	2N6109	-60	-5	30-150	-4	-2.5	-3.5	-7	-3	>10	TO-220	Power amplifier and switching
40	7	60	2SD635	60	5	2K-	3	3	2	7	0.014		TO-220	Amplifier/Low-speed switching/Driver
40	-7	-60	2SB707	-80	-7	40-200	-1	-3	-0.5	-5	-0.5		TO-220	Low frequency power amplifier
40	7	70	2N6292	80	5	30-150	4	2	3.5	7	3	>2.5	TO-220	Power amplifier and switching
40	7	70	2N6293	80	5	30-150	4	2	3.5	7	3	>10	TO-220	Power amplifier and switching
40	-7	-70	2N6107	-80	-5	30-150	-4	-2	-3.5	-7	-3	>10	TO-220	Power amplifier and switching
40	-7	-70	2N6110	-80	-5	30-150	-4	-3	-3.5	-7	-3	>10	TO-220	Power amplifier and switching
40	7	80	2SD1237L	90	6	70-280	2	1	0.4	4	0.4	20	TO-220	Driver
40	7	80	2SD866	130	7	60-260	2	3	0.5	5	0.25	30	TO-220	Power switching
40	-7	-80	2SB708	-80	-7	40-200	-1	-3	-0.5	-5	-0.5		TO-220	Low frequency power amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
40	-7	-80	2SB753	-100	-5	70-240	-1	-1	-0.5	-4	-0.4	10	TO-220	Power amplifier
40	7	100	2SC2334	150	7	40-200	5	3	0.6	5	0.5		TO-220	High frequency power amplifier
40	7	100	KSC2334	150	7	40-240	5	3	0.6	5	0.5		TO-220	High frequency power amplifier
40	7	100	2SD1594	150	7	40-240	5	3	0.6	5	0.5		TO-220Fa	Low frequency power amplifier
40	7	100	2SD633	100	5	2K-	3	3	2	7	0.014		TO-220	Amplifier/Low-speed switching/Driver
40	7	100	2SD866A	150	7	60-260	2	3	0.5	5	0.25	30	TO-220	Power switching
40	-7	-100	2SA1010	-100	-7	40-200	-5	-3	-0.6	-5	-0.5		TO-220	High frequency amplifier
40	8	50	2SD1158	80	10	250-	5	1	0.5	2	0.1		TO-220	Power amplifier/DC-DC converter
40	-8	-60	2SB1103	-60	-7	1K-	-3	-4	-3	-8	-0.08		TO-220	Low frequency power amplifier
40	8	100	2SD1196	110	6	1.5K-	3	4	1.5	4	0.008	20	TO-220	General purpose driver
40	8	100	2SD2024	100	7	1K-	3	2	1.5	3	0.006		TO-220	Power amplifier/Driver
40	-8	-100	2SB886	-110	-6	1500-	-3	-4	-1.5	-4	-0.008	20	TO-220	Motor drivers
40	8	120	2SD970	120	7	1K-	3	4	3	8	0.08		TO-220	Medium speed and power switching
40	10	20	2SD1445	40	5	90-260	2	3	0.6	10	0.33	120	TO-220Fa	Power amplifier
40	10	40	2SD1445A	50	5	90-260	2	3	0.6	10	0.33	120	TO-220Fa	Power amplifier
40	10	60	2SC3255	80	5	70-280	2	1	0.4	5	0.25	100	TO-220	Power amplifier
40	-10	-60	2SA1291	-80	-5	70-280	-2	-1	-0.4	-5	-0.25	100	TO-220	Power amplifier
40	10	400	2SC4274	500	10	25-	5	1	0.8	4	0.8		TO-220	General purpose
40	10	400	2SC4508	500	7	25-65	5	1	0.8	4	0.8		TO-220F	Power amplifier
40	12	50	2SD1062	60	6	70-280	2	1	0.4	6	0.3	10	TO-220	Relay driver/Inverter/Converter
41	5	400	BUW11F	850	9	10-35	5	0.5	1.5	3	0.6		TO-3PFa	Converter/Inverter /Motor control
41	5	450	BUW11AF	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-3PFa	Converter/Inverter /Motor control
43	5	90	2SD531	100	8	60-	2	0.1	2	4	0.4		TO-220	Power amplifier
45	5	100	2SD1892	120	5	5K-	5	4	2.5	4	0.004	20	TO-220Fa	Power amplifier
45	10	100	2SD2093	110	6	1.5K-	3	5	0.9*	5	0.01	20	TO-3PML	Power driver
45	-12	-50	2SB1508	-60	-6	70-280	-2	-1	-0.5	-6	-0.3	10	TO-3PML	Relay driver
50	2	60	TIP110	60	5	1K-	4	1	2.5	2	0.008		TO-220	Amplifier/Low-speed switching
50	-2	-60	TIP115	-60	-5	1K-	-4	-1	-2.5	-2	-0.008		TO-220	Amplifier/Low-speed switching
50	2	80	TIP111	80	5	1K-	4	1	2.5	2	0.008		TO-220	Amplifier/Low-speed switching
50	-2	-80	TIP116	-80	-5	1K-	-4	-1	-2.5	-2	-0.008		TO-220	Amplifier/Low-speed switching
50	2	100	TIP112	100	5	1K-	4	1	2.5	2	0.008		TO-220	Amplifier/Low-speed switching
50	-2	-100	TIP117	-100	-5	1K-	-4	-1	-2.5	-2	-0.008		TO-220	Amplifier/Low-speed switching
50	2.5	120	2N6477	140	5	25-150	4	1	2	2.5	0.5	0.2	TO-220	Regulator/Amplifier/Driver
50	2.5	140	2N6478	160	5	25-150	4	1	2	2.5	0.5	0.2	TO-220	Regulator/Amplifier/Driver
50	3	150	2N6264	170	7	20-60	2	1	0.5	1	0.1	>0.2	TO-66	Regulator/Amplifier/Driver
50	3	550	2SC5239	900	7	10-30	4	1	0.5	1	0.2	6	TO-220	General purpose
50	4	60	2N6294	60	5	750-18K	3	2	3	4	0.04	>4	TO-66	Amplifier/Medium-speed switching
50	-4	-60	2N6296	-60	-5	750-18K	-3	-2	-3	-4	-0.04	>4	TO-66	Amplifier/Medium-speed switching
50	4	80	2N6261	90	7	25-100	2	1.5	0.5	1.5	0.15		TO-66	Amplifier and driver
50	4	80	2N6295	80	5	750-18K	3	2	3	4	0.04	>4	TO-66	Amplifier/Medium-speed switching
50	-4	-80	2N6297	-80	-5	750-18K	-3	-2	-3	-4	-0.04	>4	TO-66	Amplifier/Medium-speed switching
50	-4	-90	2SA837	-90	-5	40-200	-4	-1	-1.5	-3	-0.3	10	TO-3	Power amplifier
50	4	250	2SC1454	300	7	20-	5	1	1	3	0.3	10	TO-3	Low frequency power amplifier
50	5	60	2N5614	80	5	70-200	5	2.5	0.5	1	0.1	>70	TO-3	Amplifier and switching
50	-5	-60	2N5613	-80	-5	70-200	-5	-2.5	-0.5	-1	-0.1	>70	TO-3	Amplifier and switching
50	5	80	2N5616	100	5	30-90	5	2.5	0.5	1	0.1	>60	TO-3	Amplifier and switching
50	5	80	2N5618	100	5	70-200	5	2.5	0.5	1	0.1	>70	TO-3	Amplifier and switching
50	-5	-80	2N5615	-100	-5	30-90	-5	-2.5	-0.5	-1	-0.1	>60	TO-3	Amplifier and switching
50	-5	-80	2N5617	-100	-5	70-200	-5	-2.5	-0.5	-1	-0.1	>70	TO-3	Amplifier and switching
50	5	100	2SC2908	200	12	60-320	5	0.3	1	3	0.3		TO-3PN	Power amplifier
50	5	100	2N5620	120	5	30-90	5	2.5	0.5	1	0.1	>60	TO-3	Amplifier and switching
50	-5	-100	2N5619	-120	-5	30-90	-5	-2.5	-0.5	-1	-0.1	>60	TO-3	Amplifier and switching
50	-5	-110	3CD6D	-110	-4	10-180	-10	-2.5	-1.5	-2.5	-0.5		TO-3	Amplifier/Low-speed switching
50	5	800	2SD1185	1200	6	10-30	5	0.3	5	4	0.8		TO-3	Power switching

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
50	5	800	2SD1186	1500	6	10-30	5	0.3	5	4	0.8		TO-3	Power switching
50	6	60	2SD201	90	6	40-	4	3	2	5	0.5	8	TO-3	Power amplifier and switching
50	-6	-60	2SA807	-60	-6	20-	-4	-3	-1.5	-3	-0.3	10	TO-3	Power amplifier
50	6	80	2SC1027	250	5	10-	2	5	1	5	0.5		TO-3	General purpose
50	6	80	2SC4512	120	6	50-	4	2	0.5	5	0.2	20	TO-220	General purpose
50	-6	-80	2SA808	-80	-6	20-	-4	-3	-1.5	-3	-0.3	10	TO-3	Power amplifier
50	-6	-80	2SA1726	-80	-6	50-180	-4	-2	-0.5	-2	-0.2	20	TO-220	General purpose
50	6	110	2SD1893	130	5	5K-	5	5	2.5	5	0.005	20	TO-3PFa	Power amplifier
50	6	110	2SD2340	130	5	5K-	5	3	2.5	5	0.005	20	TO-3PN	Power amplifier
50	6	500	2SC3830	600	10	10-30	4	2	0.5	2	0.4	8	TO-220	General purpose
50	6	600	2SD2498	1500	5	10-30	5	1	5	4	0.8	2	TO-3PHIS	High speed switching
50	7	40	2N6129	40	5	20-100	4	2.5	1.4	7	1.2	>2.5	TO-220	Amplifier/Medium-speed switching
50	-7	-40	2N6132	-40	-5	20-100	-4	-2.5	-1.4	-7	-1.2	>2.5	TO-220	Amplifier/Medium-speed switching
50	7	60	2N6130	60	5	20-100	4	2.5	1.4	7	1.2	>2.5	TO-220	Amplifier/Medium-speed switching
50	-7	-60	2N6133	-60	-5	20-100	-4	-2.5	-1.4	-7	-1.2	>2.5	TO-220	Amplifier/Medium-speed switching
50	7	80	2SC2438	150	7	30-	1	4	0.5	4	0.4		TO-220	General amplifier
50	7	80	2N6131	80	5	20-100	4	2.5	1.8	7	1.2	>2.5	TO-220	Amplifier/Medium-speed switching
50	-7	-80	2N6134	-80	-5	20-100	-4	-2.5	-1.8	-7	-1.2	>2.5	TO-220	Amplifier/Medium-speed switching
50	7	90	2N6702	140	7	30-	2	0.2	1.5	7	0.7	50-200	TO-220	Converter/Inverter /Regulator
50	7	120	2SC3834	200	8	70-220	4	3	0.5	3	0.3	30	TO-220	General purpose
50	7	400	2SC3832	500	10	10-30	4	3	0.5	3	0.6	10	TO-220	General purpose
50	7	400	2SD1535	500	12	500-	2	2	2	7	0.07	20	TO-220Fa	High power amplifier
50	7	600	2SD725	1500	5	8-36	5	1	5	5	1		TO-3	High voltage, power switching
50	8	45	BD533	45	5	30-100	2	2	0.8*	6	0.6	12	TO-220	Switching/Medium power linear
50	-8	-45	BD534	-45	-5	30-100	-2	-2	-0.8*	-6	-0.6	12	TO-220	Switching/Medium power linear
50	8	60	BD535	60	5	30-100	2	2	0.8*	6	0.6	12	TO-220	Switching/Medium power linear
50	-8	-60	BD536	-60	-5	30-100	-2	-2	-0.8*	-6	-0.6	12	TO-220	Switching/Medium power linear
50	8	80	BD537	80	5	30-100	2	2	0.8*	6	0.6	12	TO-220	Switching/Medium power linear
50	-8	-80	BD538	-80	-5	30-100	-2	-2	-0.8*	-6	-0.6	12	TO-220	Switching/Medium power linear
50	8	100	2SD1024	100	7	1.5K-	3	5	1.5	5	0.006	20	TO-220	Power switching
50	8	120	2SD1773	120	7	1K-	3	4	3	8	0.08	20	TO-220Fa	Medium-speed switching
50	8	200	2SD1025	200	7	1.5K-	3	5	1.5	5	0.01	20	TO-220	Power switching
50	8	600	2SD2553	1700	5	8-28	5	1	5	6	1.2	2	TO-3PHIS	High speed switching
50	10	60	D44H8	60	5	60-	1	2	1	8	0.4	50	TO-220	Regulator/Inverter/Amplifier
50	-10	-60	2N5737	-60	-5	20-80	-5	-5	-3	-10	-2.5	>10	TO-3	Power amplifier/Switching
50	-10	-60	D45H8	-60	-5	60-	-1	-2	-1	-8	-0.4	40	TO-220	Regulator/Inverter/Amplifier
50	10	80	D44H10	80	5	35-	1	2	1	8	0.8	50	TO-220	Regulator/Inverter/Amplifier
50	10	80	D44H11	80	5	60-	1	2	1	8	0.4	50	TO-220	Regulator/Inverter/Amplifier
50	-10	-80	D45H10	-80	-5	35-	-1	-2	-1	-8	-0.8	40	TO-220	Regulator/Inverter/Amplifier
50	-10	-80	D45H11	-80	-5	60-	-1	-2	-1	-8	-0.4	40	TO-220	Regulator/Inverter/Amplifier
50	-10	-100	2N5738	-100	-5	20-80	-5	-5	-3	-10	-2.5	>10	TO-3	Power amplifier/Switching
50	15	400	BUW13F	850	9	10-35	5	1.5	1.5	10	2		TO-3PFa	Converter/Inverter /Motor control
50	15	450	BUW13AF	1000	9	10-35	5	1.5	1.5	8	1.6		TO-3PFa	Converter/Inverter /Motor control
52.5	5	200	2N5664	250	6	40-120	5	1	1	5	1		TO-66	Amplifier and switching
52.5	5	300	2N5665	400	6	25-75	5	1	1	5	1		TO-66	Amplifier and switching
55	-4	-80	2SA1135	-80	-6	40-	-4	-1	-1	-2	-0.2	10	TO-3PN	General purpose
55	6	80	2SC4688	80	5	55-160	5	1	2	5	0.5	30	TO-3PML	Power amplifier
55	-6	-80	2SA1803	-80	-5	55-160	-5	-1	-2	-5	-0.5	30	TO-3PML	Power amplifier
55	15	700	BUV48CFI	1200	7	15-50	5	1	3	10	4		TO-3PML	Inverter/Solenoid and relay driver
60	3	800	2SC4445	900	7	10-30	4	0.7	0.5	0.7	0.14	15	TO-3PML	General purpose
60	4	250	2SD1073	300	30	1K-	2	2		0.01	1.5		TO-220	Power amplifier/Driver/Motor control
60	-5	-80	2SA1060	-80	-6	40-200	-5	-1	-2	-3	-0.3	20	TO-3PN	High power frequency amplifier
60	5	100	2SD1712	100	5	60-200	5	1	2	3	0.3	20	TO-3PFa	Power amplifier
60	-5	-100	2SB1054	-100	-5	40-200	-5	-1	-2	-3	-0.3	20	TO-3PFa	High power amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
60	-5	-100	2SB1157	-100	-5	60-200	-5	-1	-2	-3	-0.3	20	TO-3PFa	High power amplifier
60	5	130	2SD727	130	5	60-200	5	1	2.5	5	0.5	7	TO-3PN	Switching/Low-frequency amplifier
60	6	80	2SC3180N	80	5	55-160	5	1	2	5	0.5	30	TO-3PI	Power amplifier
60	6	80	2SC3853	120	6	50-	4	2	1.5	2	0.2	20	TO-3PN	General purpose
60	6	80	2SC4385	120	6	50-180	4	2	1.5	2	0.2	20	TO-3PML	General purpose
60	6	80	2SC4466	120	6	50-180	4	2	1.5	2	0.2	20	TO-3PN	General purpose
60	6	80	2SC5099	120	6	50-180	4	2	0.5	2	0.2	20	TO-3PML	General purpose
60	6	80	2SC5196	80	5	55-160	5	1	2	5	0.5	30	TO-3PI	Power amplifier
60	-6	-80	2SA1263N	-80	-5	55-160	-5	-1	-2	-5	-0.5	30	TO-3PI	Power amplifier
60	-6	-80	2SA1489	-80	-6	50-	-4	-2	-1.5	-2	-0.2	20	TO-3PN	General purpose
60	-6	-80	2SA1670	-80	-6	50-	-4	-2	-1.5	-2	-0.2	20	TO-3PML	General purpose
60	-6	-80	2SA1693	-80	-6	50-180	-4	-2	-1.5	-2	-0.2	20	TO-3PN	General purpose
60	-6	-80	2SA1907	-80	-6	50-180	-4	-2	-0.5	-2	-0.2	20	TO-3PML	Power amplifier
60	-6	-80	2SA1939	-80	-5	55-160	-5	-1	-2	-5	-0.5	30	TO-3PI	Power amplifier
60	6	100	2SD716	100	5	55-160	5	1	2	4	0.4	12	TO-3PI	Power amplifier
60	-6	-100	2SB686	-100	-5	55-160	-5	-1	-2	-4	-0.4	10	TO-3PI	Power amplifier
60	6	110	2SD2493	110	5	5K-	4	5	2.5	5	0.005	60	TO-3PN	Series regulator
60	6	110	2SD2494	110	5	5K-	4	5	2.5	5	0.005	60	TO-3PML	Series regulator
60	-6	-110	2SB1624	-110	-5	5K-	-4	-5	-2.5	-5	-0.005	100	TO-3PN	General purpose
60	-6	-110	2SB1625	-110	-5	5K-	-4	-5	-2.5	-5	-0.005	100	TO-3PML	General purpose
60	6	150	2SD1457	200	5	700-	2	2	1.5	3	0.06	15	TO-3PFa	Power amplifier
60	6	200	2SD1457A	200	5	700-	2	2	1.5	3	0.06	15	TO-3PFa	Power amplifier
60	6	400	BU911	450	5	500-	5	3	1.8	4	0.2		TO-220	Solenoid driver/Motor control
60	7	50	2SD844	50	5	70-240	1	1	0.4	4	0.4	15	TO-3PI	Power amplifier/High current switching
60	7	50	2SD1063	60	6	70-280	2	1	0.4	4	0.4	10	TO-3PN	Relay driver/Inverter/Converter
60	-7	-50	2SA1185	-50	-5	60-320	-5	-1	-0.8	-7	-0.7	100	TO-3PN	High power amplifier
60	-7	-50	2SB754	-50	-5	70-240	-1	-1	-0.4	-4	-0.4	10	TO-3PI	Power amplifier
60	7	100	2SC1051	150	5	40-320	5	1	2	5	0.5	8	TO-3	Low frequency power amplifier
60	-7	-150	2SA714	-150	-6	60-320	-5	-1	-2	-5	-0.5	8	TO-3	Power amplifier
60	8	60	BD203	60	5	30-	2	2	1.5	6	0.6	>7	TO-220	Amplifier/Medium-speed switching
60	-8	-60	BD204	-60	-5	30-	-2	-2	-1.5	-6	-0.6	>7	TO-220	Amplifier/Medium-speed switching
60	8	80	BDX77	100	5	30-	2	1	1.5	6	0.6	>7	TO-220	Amplifier/Medium-power switching
60	-8	-80	BDX78	-100	-5	30-	-2	-1	-1.5	-6	-0.6	>7	TO-220	Amplifier/Medium-power switching
60	10	60	2SD1229	70	6	2K-	2	5	1.5	5	0.01	20	TO-3PN	Driver
60	-10	-100	2SA1261	-100	-7	40-200	-5	-3	-0.6	-5	-0.5		TO-220	Power switching
60	10	120	2SC2527	120	7	60-200	5	1	1.8	5	0.5	80	TO-220	High frequency power amplifier
60	-10	-120	2SA1077	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-220	High-frequency power amplifier
60	-12	-50	2SA1746	-70	-6	50-	-1	-5	-0.5	-5	-0.08	25	TO-3PML	General purpose
62.5	8	60	BD645	80	5	750-	3	3	2.5	5	0.05		TO-220	Switching/Driver/Regulator
62.5	-8	-60	BD646	-80	-5	750-	-3	-3	-2.5	-5	-0.05		TO-220	Switching/Driver/Regulator
62.5	8	80	BD647	100	5	750-	3	3	2.5	5	0.05		TO-220	Switching/Driver/Regulator
62.5	-8	-80	BD648	-100	-5	750-	-3	-3	-2.5	-5	-0.05		TO-220	Switching/Driver/Regulator
62.5	8	100	BD649	120	5	750-	3	3	2.5	5	0.05		TO-220	Switching/Driver/Regulator
62.5	-8	-100	BD650	-120	-5	750-	-3	-3	-2.5	-5	-0.05		TO-220	Switching/Driver/Regulator
62.5	8	120	BD651	140	5	750-	3	3	2.5	5	0.05		TO-220	Switching/Driver/Regulator
62.5	-8	-120	BD652	-140	-5	750-	-3	-3	-2.5	-5	-0.05		TO-220	Switching/Driver/Regulator
65	5	60	TIP120	60	5	1K-	3	3	4	5	0.02		TO-220	Amplifier/Low-speed switching
65	-5	-60	TIP125	-60	-5	1K-	-3	-3	-4	-5	-0.02		TO-220	Amplifier/Low-speed switching
65	5	80	TIP121	80	5	1K-	3	3	4	5	0.02		TO-220	Amplifier/Low-speed switching
65	-5	-80	TIP126	-80	-5	1K-	-3	-3	-4	-5	-0.02		TO-220	Amplifier/Low-speed switching
65	5	100	TIP122	100	5	1K-	3	3	4	5	0.02		TO-220	Amplifier/Low-speed switching
65	-5	-100	TIP127	-100	-5	1K-	-3	-3	-4	-5	-0.02		TO-220	Amplifier/Low-speed switching
65	6	40	TIP41	40	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-40	TIP42	-40	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
65	6	45	BD243	45	5	30-	4	0.3	1.5	6	1		TO-220	Switching/Medium power linear
65	-6	-45	BD244	-45	-5	30-	-4	-0.3	-1.5	-6	-1		TO-220	Switching/Medium power linear
65	6	60	BD243A	60	5	30-	4	0.3	1.5	6	1		TO-220	Switching/Medium power linear
65	6	60	TIP41A	60	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-60	BD244A	-60	-5	30-	-4	-0.3	-1.5	-6	-1		TO-220	Switching/Medium power linear
65	-6	-60	TIP42A	-60	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching
65	6	80	BD243B	80	5	30-	4	0.3	1.5	6	1		TO-220	Switching/Medium power linear
65	6	80	TIP41B	80	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-80	BD244B	-80	-5	30-	-4	-0.3	-1.5	-6	-1		TO-220	Switching/Medium power linear
65	-6	-80	TIP42B	-80	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching
65	6	100	BD243C	100	5	30-	4	0.3	1.5	6	1		TO-220	Switching/Medium power linear
65	6	100	TIP41C	100	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-100	BD244C	-100	-5	30-	-4	-0.3	-1.5	-6	-1		TO-220	Switching/Medium power linear
65	-6	-100	TIP42C	-100	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching
65	6	120	TIP41D	160	5	30-	4	0.3	1.5	6	1.5	>3	TO-220	Power amplifier and switching
65	6	140	TIP41E	180	5	30-	4	0.3	1.5	6	1.5	>3	TO-220	Power amplifier and switching
65	6	160	TIP41F	200	5	30-	4	0.3	1.5	6	1.5	>3	TO-220	Power amplifier and switching
65	8	40	2N6386	40	5	1K-20K	3	3	3	8	0.08		TO-220	Amplifier/Low-speed switching
65	8	80	2N6530	80	5	1K-10K	3	5	3	8	0.08		TO-220	Driver/Regulator/Amplifier
65	8	100	2N6531	100	5	500-10K	3	3	3	8	0.08		TO-220	Driver/Regulator/Amplifier
65	8	100	2N6532	100	5	1K-10K	3	5	3	8	0.08		TO-220	Driver/Regulator/Amplifier
65	8	120	2N6533	120	5	1K-10K	3	3	3	8	0.08		TO-220	Driver/Regulator/Amplifier
65	-8	-120	2SB1315	-120	-5	60-320	-5	-1	-1.5	-5	-0.5	65	TO-3PML	Low frequency power amplifier
65	10	60	2N6387	60	5	1K-20K	3	5	3	10	0.1		TO-220	Amplifier/Low-speed switching
65	10	80	2N6388	80	5	1K-20K	3	5	3	10	0.1		TO-220	Amplifier/Low-speed switching
65	15	200	2SD2196	200	7	1.5K-	3	10	1.5	10	0.03	20	TO-3PML	Power switching
65	-20	-60	2N5741	-60	-5	20-80	-5	-10	-3	-20	-4	>10	TO-3	Power amplifier/Switching
65	-20	-100	2N5742	-100	-5	20-80	-5	-10	-3	-20	-4	>10	TO-3	Power amplifier/Switching
70	3	800	2SC4299	900	7	10-30	4	1	0.5	1	0.2	6	TO-3PML	General purpose
70	5	200	2SD2557	200	6	1.5K-	5	1	1.5	1	0.005	15	TO-3PN	Series regulator
70	5	400	BUV46	850	7				5	3.5	0.7		TO-220	General purpose switching
70	5	450	BUV46A	1000	7				5	3	0.6		TO-220	General purpose switching
70	-6	-100	2SA1061	-100	-5	40-200	-5	-1	-2	-4	-0.4	20	TO-3PN	High power frequency amplifier
70	6	120	2SD1486	120	5	40-200	5	1	2	4	0.4	20	TO-3PFa	High power amplifier
70	-6	-120	2SB1055	-120	-5	40-200	-5	-1	-2	-4	-0.4	20	TO-3PFa	High power amplifier
70	-6	-120	2SB1158	-120	-5	60-200	-5	-1	-2	-4	-0.4	20	TO-3PFa	High power amplifier
70	-6	-120	2SB1371	-120	-5	60-200	-5	-1	-2	-4	-0.4	15	TO-3PFa	High power amplifier
70	6	150	2SD728	150	5	100-	5	1	2	5	0.5	7	TO-3PN	Switching/Low-frequency amplifier
70	-7	-100	2SB776	-120	-6	60-200	-5	-1	-2	-4	-0.4	15	TO-3PN	AF output
70	7	120	2SC3835	200	8	70-220	4	3	0.5	3	0.3	30	TO-3PN	General purpose
70	7	140	2SD1894	160	5	5K-	5	6	2.5	6	0.006	20	TO-3PFa	Power amplifier
70	7	140	2SD2386	140	5	5K-	5	6	2.5	6	0.006	30	TO-3PI	Power amplifier
70	-7	-140	2SB1254	-160	-5	5K-	-5	-6	-2.5	-6	-0.006	20	TO-3PFa	Power amplifier
70	8	40	BD543	40	5	40-	4	3	1	8	1.6		TO-220	Switching/Medium power linear
70	8	45	BD895	45	5	750-	3	3	2.5	3	0.012		TO-220	General amplifier and switching
70	8	45	BD895A	45	5	750-	3	4	2.8	4	0.016		TO-220	General amplifier and switching
70	-8	-45	BD896	-45	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	General amplifier and switching
70	-8	-45	BD896A	-45	-5	750-	-3	-4	-2.8	-4	-0.016		TO-220	General amplifier and switching
70	8	60	BD543A	60	5	40-	4	3	1	8	1.6		TO-220	Switching/Medium power linear
70	8	60	BD897	60	5	750-	3	3	2.5	3	0.012		TO-220	General amplifier and switching
70	8	60	BD897A	60	5	750-	3	4	2.8	4	0.016		TO-220	General amplifier and switching
70	8	60	TIP130	60	5	1K-15K	4	4	3	6	0.03		TO-220	Amplifier/Low-speed switching
70	-8	-60	TIP135	-60	-5	1K-15K	-4	-4	-3	-6	-0.03		TO-220	Amplifier/Low-speed switching
70	-8	-60	BD898	-60	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	General amplifier and switching

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
70	-8	-60	BD898A	-60	-5	750-	-3	-4	-2.8	-4	-0.016		TO-220	General amplifier and switching
70	8	80	BD543B	80	5	40-	4	3	1	8	1.6		TO-220	Switching/Medium power linear
70	8	80	BD899	80	5	750-	3	3	2.5	3	0.012		TO-220	General amplifier and switching
70	8	80	BD899A	80	5	750-	3	4	2.8	4	0.016		TO-220	General amplifier and switching
70	8	80	TIP131	80	5	1K-15K	4	4	3	6	0.03		TO-220	Amplifier/Low-speed switching
70	-8	-80	TIP136	-80	-5	1K-15K	-4	-4	-3	-6	-0.03		TO-220	Amplifier/Low-speed switching
70	-8	-80	2SA744	-80	-6	30-	-4	-3	-1.5	-3	-0.3	15	TO-3	Power amplifier
70	-8	-80	BD900	-80	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	General amplifier and switching
70	-8	-80	BD900A	-80	-5	750-	-3	-4	-2.8	-4	-0.016		TO-220	General amplifier and switching
70	8	100	BD543C	100	5	40-	4	3	1	8	1.6		TO-220	Switching/Medium power linear
70	8	100	BD901	100	5	750-	3	3	2.5	3	0.012		TO-220	General amplifier and switching
70	8	100	TIP132	100	5	1K-15K	4	4	3	6	0.03		TO-220	Amplifier/Low-speed switching
70	-8	-100	TIP137	-100	-5	1K-15K	-4	-4	-3	-6	-0.03		TO-220	Amplifier/Low-speed switching
70	-8	-100	2SA745	-100	-6	30-	-4	-3	-1.5	-3	-0.3	15	TO-3	Power amplifier
70	-8	-100	BD902	-100	-5	750-	-3	-3	-2.5	-3	-0.012		TO-220	General amplifier and switching
70	8	120	2SC4689	120	5	55-160	5	1	2	6	0.6	30	TO-3PML	Power amplifier
70	-8	-120	2SA745A	-120	-6	30-	-4	-3	-1.5	-3	-0.3	15	TO-3	Power amplifier
70	-8	-120	2SA1804	-120	-5	55-160	-5	-1	-2	-6	-0.6	30	TO-3PML	Power amplifier
70	10	80	2N6495	150	7	10-60	3	10	1.5	10	1	25	TO-66	Switching and amplifier
70	10	100	2SD1197	110	6	1.5K-	3	5	1.5	5	0.01	20	TO-3PN	General purpose driver
70	-10	-100	2SB887	-110	-6	1.5K-	-3	-5	-1.5	-5	-0.01	20	TO-3PN	Driver
70	15	60	2SD1193	70	6	2K-	2	7	1.5	7	0.014	20	TO-3PN	General purpose driver
71	10	140	2N6217	180	7	20-80	5	5	1.6	6	0.75	20	TO-3	Switching and amplifier
71	10	150	2N6216	200	7	20-80	5	5	1.6	6	0.75	20	TO-3	Switching and amplifier
75	4	55	2N3054A	90	7	8-80	2	1	6	3	1	>3	TO-66	Switching and amplifier
75	-4	-55	2N6049	-90	-7	25-100	-4	-0.5	-2	-4	-0.8	>3	TO-66	Switching and amplifier
75	4	400	BUL6825	700	9	8-40	5	2	1	4	1	>4	TO-220	Relay driver/Inverter
75	5	35	2N3226	35	5	40-	4	1	2	5	1		TO-3	Switching and amplifier
75	-5	-40	2N6312	-40	-5	25-100	-2	-1.5	-4	-5	-1.25	>4	TO-66	Power amplifier and switching
75	-5	-60	2N6313	-60	-5	25-100	-2	-1.5	-4	-5	-1.25	>4	TO-66	Power amplifier and switching
75	-5	-80	2N6314	-80	-5	25-100	-2	-1.5	-4	-5	-1.25	>4	TO-66	Power amplifier and switching
75	5	800	2SC4300	900	7	10-30	4	2	0.5	2	0.4	6	TO-3PML	General purpose
75	8	60	2N6043	60	5	1K-20K	4	4	4	8	0.08		TO-220	Amplifier/Low-speed switching
75	8	60	2N6300	60	5	750-18K	3	4	3	8	0.08		TO-66	Amplifier/Low-frequency switching
75	-8	-60	2N6298	-60	-5	750-18K	-3	-4	-3	-8	-0.08		TO-66	Amplifier/Low-frequency switching
75	8	80	2N6044	80	5	1K-20K	4	4	4	8	0.08		TO-220	Amplifier/Low-speed switching
75	8	80	2N6301	80	5	750-18K	3	4	3	8	0.08		TO-66	Amplifier/Low-frequency switching
75	-8	-80	2N6299	-80	-5	750-18K	-3	-4	-3	-8	-0.08		TO-66	Amplifier/Low-frequency switching
75	8	100	2N6045	100	5	1K-20K	4	3	4	8	0.08		TO-220	Amplifier/Low-speed switching
75	8	120	2SC4386	160	6	50-180	4	3	1.5	3	0.3	20	TO-3PML	General purpose
75	8	120	2SC5100	160	6	50-180	4	3	0.5	3	0.3	20	TO-3PML	General purpose
75	-8	-120	2SA1671	-120	-6	50-180	-4	-3	-0.5	-3	-0.3	20	TO-3PML	General purpose
75	-8	-120	2SA1908	-120	-6	50-180	-4	-3	-0.5	-3	-0.3	20	TO-3PML	Power amplifier
75	8	150	2SD2438	160	5	5K-	4	6	2.5	6	0.006	80	TO-3PML	Series regulator
75	-8	-150	2SB1587	-160	-5	5K-	-4	-6	-2.5	-6	-0.006	65	TO-3PML	General purpose
75	10	60	MJE3055T	70	5	20-100	4	4	8	10	3.3	>2	TO-220	Switching and amplifier
75	-10	-60	MJE2955T	-70	-5	20-100	-4	-4	-8	-10	-3.3	>2	TO-220	Switching and amplifier
75	10	70	2N6098	70	8	20-80	4	4	3.5	10	2.5	>0.8	TO-220	Amplifier and switching
75	10	70	2N6099	70	8	20-80	4	4	3.5	10	2.5	>0.8	TO-220	Amplifier and switching
75	10	80	2N6100	80	8	20-80	4	5	3.5	10	2.5	>0.8	TO-220	Amplifier and switching
75	10	80	2N6101	80	8	20-80	4	5	3.5	10	2.5	>0.8	TO-220	Amplifier and switching
75	12	60	BD707	60	5	40-400	2	0.5	1	4	0.4	>3	TO-220	Power linear and switching
75	-12	-60	BD708	-60	-5	40-400	-2	-0.5	-1	-4	-0.4	>3	TO-220	Power linear and switching
75	12	80	BD709	80	5	40-400	2	0.5	1	4	0.4	>3	TO-220	Power linear and switching

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
75	-12	-80	BD710	-80	-5	40-400	-2	-0.5	-1	-4	-0.4	>3	TO-220	Power linear and switching
75	12	100	BD711	100	5	40-400	2	0.5	1	4	0.4	>3	TO-220	Power linear and switching
75	-12	-100	BD712	-100	-5	40-400	-2	-0.5	-1	-4	-0.4	>3	TO-220	Power linear and switching
75	12	400	2SC4297	500	10	10-30	4	7	0.5	7	1.4	10	TO-3PML	General purpose
75	15	40	2N6486	50	5	20-150	4	5	3.5	15	5		TO-220	Amplifier/Medium-speed switching
75	-15	-40	2N6489	-50	-5	20-150	-4	-5	-3.5	-15	-5		TO-220	Amplifier/Medium-speed switching
75	15	60	2N6487	70	5	20-150	4	5	3.5	15	5		TO-220	Amplifier/Medium-speed switching
75	-15	-60	2N6490	-70	-5	20-150	-4	-5	-3.5	-15	-5		TO-220	Amplifier/Medium-speed switching
75	15	80	2N6488	90	5	20-150	4	5	3.5	15	5		TO-220	Amplifier/Medium-speed switching
75	-15	-80	2N6491	-90	-5	20-150	-4	-5	-3.5	-15	-5		TO-220	Amplifier/Medium-speed switching
75	16	45	2N6102	45	8	15-80	4	8	3.5	15	5	>0.8	TO-220	Amplifier and switching
75	16	45	2N6103	45	8	15-80	4	8	3.5	15	5	>0.8	TO-220	Amplifier and switching
75	16	120	2SD2082	120	6	2K-	4	8	1.5	8	0.016	20	TO-3PML	Diverfor solenoid/Motor
80	3	800	2SC3678	900	7	10-30	4	1	0.5	1	0.2	6	TO-3PN	General purpose
80	5	250	2N6497	350	6	10-75	10	2.5	5	5	2	>5	TO-220	Switching regulator/Amplifier
80	5	350	2N6499	450	6	10-75	10	2.5	5	5	2	>5	TO-220	Switching regulator/Amplifier
80	5	450	2N6833	850	6	7.5-30	5	3	2.5	3	0.4	15-75	TO-220	Regulator/Inverter/Driver
80	5	550	2SC5287	900	7	10-25	4	1.8	0.5	1.8	0.36	6	TO-3PN	General purpose
80	5	800	2SC3551	900	10	10-	5	2	1	2	0.4		TO-3PN	Power amplifier
80	5	800	2SC4538	900	10	10-	5	2	1	2	0.4		TO-3PML	Power amplifier
80	-6	-150	2SA1063	-150	-6	40-280	-5	-1	-2	-4	-0.4	50	TO-3	Switching and amplifier
80	6	700	2SC3505	900	10	10-	5	2	0.5	2	0.4		TO-3PN	Power amplifier
80	6	800	2SC4303	1400	7	6-	4	2.5	1	2.5	0.5	4	TO-3PML	General purpose
80	-7	-120	2SA1062	-120	-5	40-200	-5	-1	-2	-5	-0.5	20	TO-3PN	High power frequency amplifier
80	-7	-120	2SB849	-120	-7	40-200	-5	-1	-2	-5	-0.5	14	TO-3PFa	Low frequency power amplifier
80	-7	-140	2SB1056	-140	-5	40-200	-5	-1	-2	-5	-0.5	20	TO-3PFa	High power amplifier
80	-7	-140	2SB1159	-140	-5	60-200	-5	-1	-2	-5	-0.5	20	TO-3PFa	High power amplifier
80	7	800	2SC4301	900	7	10-30	4	3	0.5	3	0.6	6	TO-3PML	General purpose
80	7.5	450	BUF405A	1000	7				0.5*	5	1		TO-220	Motor driver
80	8	60	TIP100	60	5	1K-20K	4	3	2.5	8	0.08		TO-220	Amplifier/Low-speed switching
80	-8	-60	TIP105	-60	-5	1K-20K	-4	-3	-2.5	-8	-0.08		TO-220	Amplifier/Low-speed switching
80	8	80	TIP101	80	5	1K-20K	4	3	2.5	8	0.08		TO-220	Amplifier/Low-speed switching
80	-8	-80	TIP106	-80	-5	1K-20K	-4	-3	-2.5	-8	-0.08		TO-220	Amplifier/Low-speed switching
80	8	100	TIP102	100	5	1K-20K	4	3	2.5	8	0.08		TO-220	Amplifier/Low-speed switching
80	-8	-100	TIP107	-100	-5	1K-20K	-4	-3	-2.5	-8	-0.08		TO-220	Amplifier/Low-speed switching
80	8	120	2SC3181N	120	5	55-160	5	1	2	6	0.6	30	TO-3PI	Power amplifier
80	8	120	2SC3854	160	6	50-	4	3	1.5	3	0.3	20	TO-3PN	General purpose
80	8	120	2SC4467	160	6	50-180	4	3	1.5	3	0.3	20	TO-3PN	General purpose
80	8	120	2SC5197	120	5	55-160	5	1	2	6	0.6	30	TO-3PI	Power amplifier
80	8	120	2SD718	120	5	55-160	5	1	2.5	5	0.5	12	TO-3PI	Power amplifier
80	8	120	2SD1046	150	6	60-200	5	1	2	5	0.5	15	TO-3PN	Power amplifier/Power switching
80	-8	-120	2SA1104	-120	-6	50-180	-4	-3	-1.5	-3	-0.3	20	TO-3PN	General purpose
80	-8	-120	2SA1264N	-120	-5	55-160	-5	-1	-2	-6	-0.6	30	TO-3PI	Power amplifier
80	-8	-120	2SA1490	-120	-6	50-	-4	-3	-1.5	-3	-0.3	20	TO-3PN	General purpose
80	-8	-120	2SA1694	-120	-6	50-180	-4	-3	-1.5	-3	-0.3	20	TO-3PN	General purpose
80	-8	-120	2SA1940	-120	-5	55-160	-5	-1	-2	-6	-0.6	30	TO-3PI	Power amplifier
80	-8	-120	2SB557	-120	-5	40-140	-5	-1	-2.5	-5	-0.5	7	TO-3	Power amplifier
80	-8	-120	2SB688	-120	-5	55-160	-5	-1	-2.5	-5	-0.5	10	TO-3PI	Power amplifier
80	-8	-120	2SB816	-150	-6	60-200	-5	-1	-2	-5	-0.5	15	TO-3PN	LF power amplifier
80	-8	-120	2SB966	-120	-5	60-320	-5	-1	-1.5	-5	-0.5	65	TO-3PFa	Low frequency power amplifier
80	8	140	2SD388	150	7	50-	5	1	2	6	0.6	9	TO-3	Power amplifier
80	-8	-140	2SB1558	-140	-5	5K-	-5	-7	-2.5	-7	-0.007	30	TO-3PI	Power amplifier
80	8	150	2SD2389	160	5	5K-	4	6	2.5	6	0.006	80	TO-3PN	Power amplifier
80	-8	-150	2SB1559	-160	-5	5K-	-4	-6	-2.5	-6	-0.006	65	TO-3PN	General purpose

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
80	8	300	TIP150	300	8	150-	5	2.5	2	5	0.25		TO-220	Switching and motor control
80	8	350	TIP151	350	8	150-	5	2.5	2	5	0.25		TO-220	Switching and motor control
80	8	400	2SC1577	500	7	30-	4	3	0.5	5	1	7	TO-3	General purpose
80	8	400	TIP152	400	8	150-	5	2.5	2	5	0.25		TO-220	Switching and motor control
80	10	40	TIP33	40	5	20-100	4	3	4	10	2.5	>3	TO-3PN	Power amplifier and switching
80	-10	-40	TIP34	-40	-5	20-100	-4	-3	-4	-10	-2.5	>3	TO-3PN	Power amplifier and switching
80	10	45	BD245	55	5	20-	4	3	4	10	2.5		TO-3PN	Switching/Medium power linear
80	-10	-45	BD246	-55	-5	20-	-4	-3	-4	-10	-2.5		TO-3PN	Switching/Medium power linear
80	10	50	2SD171	70	5	70-240	1	1	0.4	6	0.3	10	TO-3PI	Power switching/converter
80	10	60	BD245A	70	5	20-	4	3	4	10	2.5		TO-3PN	Switching/Medium power linear
80	10	60	TIP33A	60	5	20-100	4	3	4	10	2.5	>3	TO-3PN	Power amplifier and switching
80	-10	-60	BD246A	-70	-5	20-	-4	-3	-4	-10	-2.5		TO-3PN	Switching/Medium power linear
80	-10	-60	TIP34A	-60	-5	20-100	-4	-3	-4	-10	-2.5	>3	TO-3PN	Power amplifier and switching
80	10	80	BD245B	90	5	20-	4	3	4	10	2.5		TO-3PN	Switching/Medium power linear
80	10	80	TIP33B	80	5	20-100	4	3	4	10	2.5	>3	TO-3PN	Power amplifier and switching
80	-10	-80	BD246B	-90	-5	20-	-4	-3	-4	-10	-2.5		TO-3PN	Switching/Medium power linear
80	-10	-80	TIP34B	-80	-5	20-100	-4	-3	-4	-10	-2.5	>3	TO-3PN	Power amplifier and switching
80	10	100	BD245C	115	5	20-	4	3	4	10	2.5		TO-3PN	Switching/Medium power linear
80	10	100	TIP33C	100	5	20-100	4	3	4	10	2.5	>3	TO-3PN	Power amplifier and switching
80	-10	-100	BD246C	-115	-5	20-	-4	-3	-4	-10	-2.5		TO-3PN	Switching/Medium power linear
80	-10	-100	TIP34C	-100	-5	20-100	-4	-3	-4	-10	-2.5	>3	TO-3PN	Power amplifier and switching
80	10	120	2SD998	120	5	55-160	5	1	2.5	5	0.5	12	TO-3PML	High power amplifier
80	-10	-120	2SB778	-120	-5	55-160	-5	-1	-2.5	-5	-0.5	10	TO-3PML	High power amplifier
80	10	140	2SC4387	200	6	50-180	4	3	2	5	0.5	20	TO-3PML	General purpose
80	10	140	2SC4690	140	5	55-160	5	1	2	7	0.7	30	TO-3PML	Power amplifier
80	10	140	2SC5101	200	6	50-180	4	3	0.5	5	0.5	20	TO-3PML	General purpose
80	-10	-140	2SA1672	-140	-6	50-180	-4	-3	-2	-5	-0.5	20	TO-3PML	General purpose
80	-10	-140	2SA1805	-140	-5	55-160	-5	-1	-2	-7	-0.7	30	TO-3PML	Power amplifier
80	-10	-140	2SA1909	-140	-6	50-180	-4	-3	-0.5	-5	-0.5	20	TO-3PML	General purpose
80	10	150	2SD2439	160	5	5K-	4	7	2.5	7	0.007	55	TO-3PML	Series regulator
80	-10	-150	2SB1588	-160	-5	5K-	-4	-7	-2.5	-7	-0.007	50	TO-3PML	General purpose
80	10	350	2SD437	600	6	15-50	5	1	3	8	2.5		TO-3	Power amplifier
80	10	400	2SC2625	450	7	10-	5	4	1.2	4	0.8		TO-3PN	Power amplifier
80	10	400	2SC3318	500	7	10-	5	5	1	5	1		TO-3PN	Power amplifier
80	10	400	2SC4138	500	10	10-30	4	6	0.5	6	1.2	10	TO-3PN	General purpose
80	10	400	2SC4275	500	10	25-	5	1	0.8	4	0.8		TO-3PN	General purpose
80	10	400	2SC4509	500	10	25-65	5	1	0.8	4	0.8		TO-3PML	Power amplifier
80	10	550	2SC4557	900	7	10-28	4	5	0.5	5	1	6	TO-3PML	Power amplifier
80	12	50	2SD1064	60	6	70-280	2	1	0.4	6	0.3	10	TO-3PN	Relay driver/Inverter/Converter
80	12	80	2SD1238L	90	6	70-280	2	1	0.4	6	0.6	20	TO-3PN	Driver
80	14	150	2SC4886	150	5	50-180	4	5	2	5	0.5	60	TO-3PML	General purpose
80	-14	-150	2SA1860	-150	-5	50-180	-4	-5	-2	-5	-0.5	50	TO-3PML	General purpose
80	-15	-40	2SB757	-40	-5	40-240	-2	-5	-0.8	-5	-0.5		TO-3PN	General purpose power amplifier
80	-15	-60	2SA1292	-80	-5	70-280	-2	-1	-0.4	-7.5	-0.375	100	TO-3PN	Power amplifier
80	15	300	2SC2626	400	7	10-	5	6	1.2	6	1.2		TO-3PN	Power amplifier
80	15	400	2SC3320	500	7	10-	5	6	1	6	1.2		TO-3PN	Power amplifier
80	15	400	2SC3725	450	10	10-	5	6	0.8	6	1.2		TO-3PN	Power amplifier
80	15	400	2SC4276	500	10	25-	5	2	0.8	6	1.2		TO-3PN	General purpose
80	15	400	2SC4298	500	10	10-30	4	8	0.5	8	1.6	10	TO-3PML	General purpose
80	15	400	2SC4510	500	10	25-65	5	2	0.8	6	1.2		TO-3PML	Power amplifier
80	25	80	2SD1049	120	7	20-	5	25	1.5	25	2.5		TO-3PN	Power amplifier
85	15	180	2SC4388	200	6	50-180	4	3	2	5	0.5	20	TO-3PML	General purpose
85	-15	-180	2SA1673	-180	-6	50-180	-4	-3	-2	-5	-0.5	20	TO-3PML	General purpose
87	7	180	2N5264	300	7	30-300	5	1	1.5	7	1.4	>50	TO-3	Power amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
87.5	5	40	2N4913	40	5	25-100	2	2.5	1.5	5	1	>4	TO-3	Power amplifier/Switching
87.5	5	40	2N5067	40	5	20-80	2	1	1.5	5	1	>4	TO-3	Power amplifier/Switching
87.5	-5	-40	2N4901	-40	-5	20-80	-2	-1	-1.5	-5	-1	>4	TO-3	Power amplifier/Switching
87.5	-5	-40	2N4904	-40	-5	25-100	-2	-2.5	-1.5	-5	-1	>4	TO-3	Power amplifier/Switching
87.5	5	60	2N4914	60	5	25-100	2	2.5	1.5	5	1	>4	TO-3	Power amplifier/Switching
87.5	5	60	2N5068	60	5	20-80	2	1	1.5	5	1	>4	TO-3	Power amplifier/Switching
87.5	5	60	2N5869	60	5	20-100	4	1.5	1	5	1	>4	TO-3	Switching and amplifier
87.5	-5	-60	2N4902	-60	-5	20-80	-2	-1	-1.5	-5	-1	>4	TO-3	Power amplifier/Switching
87.5	-5	-60	2N4905	-60	-5	25-100	-2	-2.5	-1.5	-5	-1	>4	TO-3	Power amplifier/Switching
87.5	-5	-60	2N5867	-60	-5	20-100	-4	-1.5	-1	-5	-1	>4	TO-3	Switching and amplifier
87.5	5	80	2N4915	80	5	25-100	2	2.5	1.5	5	1	>4	TO-3	Power amplifier/Switching
87.5	5	80	2N5069	80	5	20-80	2	1	1.5	5	1	>4	TO-3	Power amplifier/Switching
87.5	5	80	2N5870	80	5	20-100	4	1.5	1	5	1	>4	TO-3	Switching and amplifier
87.5	-5	-80	2N4903	-80	-5	20-80	-2	-1	-1.5	-5	-1	>4	TO-3	Power amplifier/Switching
87.5	-5	-80	2N4906	-80	-5	25-100	-2	-2.5	-1.5	-5	-1	>4	TO-3	Power amplifier/Switching
87.5	-5	-80	2N5868	-80	-5	20-100	-4	-1.5	-1	-5	-1	>4	TO-3	Switching and amplifier
87.5	20	80	2N5732	100	7	30-300	2	5	4	20	4	>30	TO-3	Amplifier and switching
90	7	60	2N6315	60	5	20-100	4	2.5	2	7	1.75	>4	TO-66	Power amplifier and switching
90	-7	-60	2N6317	-60	-5	20-100	-4	-2.5	-2	-7	-1.75	>4	TO-66	Power amplifier and switching
90	7	80	2N6316	80	5	20-100	4	2.5	2	7	1.75	>4	TO-66	Power amplifier and switching
90	-7	-80	2N6318	-80	-5	20-100	-4	-2.5	-2	-7	-1.75	>4	TO-66	Power amplifier and switching
90	9	400	BUV47	850	7	7-14	5	10	3	8	2.5		TO-3PN	DC and AC motor control
90	9	400	BUV47B	850	7	7-14	5	10	3	9	3		TO-3PN	DC and AC motor control
90	10	60	MJ1000	60	5	1K-	3	3	4	8	0.04		TO-3	General purpose amplifier
90	-10	-60	BDT92	-60	-5	20-200	-4	-4	-3	-10	-3.3	>4	TO-220	Power amplifier and switching
90	10	80	BD809	80	5	30-	2	2	1.1	3	0.3	>1.5	TO-220	Power amplifier
90	10	80	MJ1001	80	5	1K-	3	3	4	8	0.04		TO-3	General purpose amplifier
90	-10	-80	BD810	-80	-5	30-	-2	-2	-1.1	-3	-0.3	>1.5	TO-220	Power amplifier
90	15	45	BD743	50	5	20-150	4	5	3	15	5		TO-220	Power linear and switching
90	-15	-45	BD744	-50	-5	20-150	-4	-5	-3	-15	-5		TO-220	Power linear and switching
90	15	50	2SD1065	60	6	70-280	2	1	0.4	8	0.4	20	TO-3PN	Relay driver/Inverter/Converter
90	15	60	BD743A	70	5	20-150	4	5	3	15	5		TO-220	Power linear and switching
90	15	60	TIP3055	100	7	20-70	4	4	3	10	3.3	>2.5	TO-3PN	Amplifier and switching
90	-15	-60	BD744A	-70	-5	20-150	-4	-5	-3	-15	-5		TO-220	Power linear and switching
90	-15	-60	TIP2955	-100	-7	20-70	-4	-4	-3	-10	-3.3	>2.5	TO-3PN	Amplifier and switching
90	15	80	BD743B	90	5	20-150	4	5	3	15	5		TO-220	Power linear and switching
90	15	80	BD909	80	5	15-150	4	5	3	10	2.5	>3	TO-220	Power amplifier and switching
90	-15	-80	BD744B	-90	-5	20-150	-4	-5	-3	-15	-5		TO-220	Power linear and switching
90	-15	-80	BD910	-80	-5	15-150	-4	-5	-3	-10	-2.5	>3	TO-220	Power amplifier and switching
90	15	100	BD743C	110	5	20-150	4	5	3	15	5		TO-220	Power linear and switching
90	15	100	BD911	100	5	15-150	4	5	3	10	2.5	>3	TO-220	Power amplifier and switching
90	-15	-100	BD744C	-110	-5	20-150	-4	-5	-3	-15	-5		TO-220	Power linear and switching
90	-15	-100	BD912	-100	-5	15-150	-4	-5	-3	-10	-2.5	>3	TO-220	Power amplifier and switching
100	3	250	2N5838	275	6	8-40	3	3	0.8	2	0.4	>5	TO-3	Inductive switching circuit
100	3	275	2N5839	300	6	10-50	3	2	0.8	2	0.4	>5	TO-3	Inductive switching circuit
100	3	350	2N5840	375	6	10-50	3	2	0.8	2	0.4	>5	TO-3	Inductive switching circuit
100	3.5	500	2N5157	700	7	30-90	5	1	1.2	3	0.5	2.8	TO-3	Driver/Switching regulator
100	5	200	MJ410	200	5	30-90	5	1	0.8	1	0.1	>2.5	TO-3	Inverter/Converter/Regulator
100	5	225	2N5239	300	6	20-80	10	2	5	4.5	1.125	>2	TO-3	Switching regulator,inverter
100	5	300	2N6542	650	8	12-60	2	1.5	5	5	1	6-35	TO-3	Regulator/Motor control/Driver
100	5	400	2N6543	850	8	12-60	2	1.5	5	5	1	6-35	TO-3	Regulator/Motor control/Driver
100	5	400	BUT11	850	7	10-35	5	0.5	1.5	3	0.6		TO-220	Converter/Inverter /Motor control
100	5	400	BUW11	850	9	10-35	5	0.5	1.5	3	0.6		TO-3PN	Converter/Inverter /Motor control
100	5	450	BUT11A	1000	7	10-35	5	0.5	1.5	2.5	0.5		TO-220	Converter/Inverter /Motor control

Power Transistors For General Purpose Use

P _C	I _C	V _{ce0}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
100	5	450	BUW11A	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-3PN	Converter/Inverter /Motor control
100	5	800	2SC3679	900	7	10-30	4	2	0.5	2	0.4	6	TO-3PN	General purpose
100	6	800	2SC4419	900	10	10-	5	2	1	2	0.4		TO-3PN	Power amplifier
100	8	60	2N6055	60	5	750-18K	3	4	3	8	0.08		TO-3	Amplifier/Low-frequency switching
100	8	80	2N6056	80	5	750-18K	3	4	3	8	0.08		TO-3	Amplifier/Low-frequency switching
100	-8	-150	2SA1064	-150	-5	40-280	-5	-1	-2	-8	-0.8	50	TO-3	High power amplifier
100	8	400	BUT12	850	9	10-35	5	1	1.5	6	1.2		TO-220	Converter/Inverter /Motor control
100	8	450	BUT12A	1000	9	10-35	5	1	1.5	5	1		TO-220	Converter/Inverter /Motor control
100	-9	-140	2SB713	-200	-5	40-200	-5	-1	-2	-7	-0.7	7	TO-3PN	High power amplifier
100	9	150	2SD1715	150	5	60-200	5	1	2	7	0.7	20	TO-3Pfa	Power amplifier
100	9	150	2SD2053	150	5	60-200	5	1	2	7	0.7	20	TO-3PN	Power amplifier
100	-9	-150	2SB1057	-150	-5	40-200	-5	-1	-2	-7	-0.7	20	TO-3Pfa	High power amplifier
100	-9	-150	2SB1160	-150	-5	60-200	-5	-1	-2	-7	-0.7	20	TO-3Pfa	High power amplifier
100	-9	-150	2SB1362	-150	-5	60-200	-5	-1	-2	-7	-0.7	15	TO-3PN	High power amplifier
100	10	40	2N6383	40	5	1K-20K	3	5	3	10	0.1		TO-3	Amplifier/Driver/Regulator
100	10	60	2SD1243	60	5	50-	3	3	1.5	5	0.5		TO-3PN	High frequency power amplifier
100	10	60	2SD211	60	6	30-	4	5	1.5	5	0.5	8	TO-3	Power amplifier and switching
100	10	60	2N5622	80	5	70-200	5	5	1.5	10	1	>40	TO-3	Power amplifier
100	10	60	2N6384	60	5	1K-20K	3	5	3	10	0.1		TO-3	Amplifier/Driver/Regulator
100	-10	-60	2N5621	-80	-5	70-200	-5	-5	-1.5	-10	-1	>40	TO-3	Power amplifier
100	10	80	2N5624	100	5	30-90	5	5	1.5	10	1	>30	TO-3	Power amplifier
100	10	80	2N5626	100	5	70-200	5	5	1.5	10	1	>40	TO-3	Power amplifier
100	10	80	2N6385	80	5	1K-20K	3	5	3	10	0.1		TO-3	Amplifier/Driver/Regulator
100	-10	-80	2SA877	-80	-6	50-	-4	-3	-2	-5	-0.5	15	TO-3	Power amplifier
100	-10	-80	2N5623	-100	-5	30-90	-5	-5	-1.5	-10	-1	>30	TO-3	Power amplifier
100	-10	-80	2N5625	-100	-5	70-200	-5	-5	-1.5	-10	-1	>40	TO-3	Power amplifier
100	10	100	2N5628	120	5	30-90	5	5	1.5	10	1	>30	TO-3	Power amplifier
100	-10	-100	2N5627	-120	-5	30-90	-5	-5	-1.5	-10	-1	>30	TO-3	Power amplifier
100	10	115	2SC2681	115	5	60-200	2	1	1.5	4.5	0.45	80	TO-3Pfa	High frequency power amplifier
100	-10	-115	2SA1141	-115	-5	60-200	-2	-1	-1.5	-4.5	-0.45	90	TO-3Pfa	High-frequency power amplifier
100	10	120	2SC1116	180	6	50-	4	3	2	5	0.5	10	TO-3	General purpose
100	10	120	2N5559	150	7	12-60	2	4	5	10	-2		TO-3	Regulator/Power switches
100	-10	-120	2SA878	-120	-6	50-	-4	-3	-2	-5	-0.5	15	TO-3	Power amplifier
100	-10	-120	2SA1067	-120	-5	60-150	-4	-3	-2	-5	-0.5	50	TO-3	General purpose amplifier
100	10	140	2SC2706	140	5	55-160	5	1	2	5	0.5	90	TO-3PI	General purpose
100	10	140	2SC3182N	140	5	55-160	5	1	2	7	0.7	30	TO-3PI	Power amplifier
100	10	140	2SC3855	200	6	50-	4	3	2	5	0.5	20	TO-3PN	General purpose
100	10	140	2SC4468	200	6	50-180	4	3	0.5	5	0.5	20	TO-3PN	General purpose
100	10	140	2SC5198	140	5	55-160	5	1	2	7	0.7	30	TO-3PI	Power amplifier
100	10	140	2SD1148	140	5	55-160	5	1	2	5	0.5	20	TO-3PI	Power amplifier
100	-10	-140	2SA1146	-140	-5	55-160	-5	-1	-2	-5	-0.5	70	TO-3PI	General purpose
100	-10	-140	2SA1265N	-140	-5	55-160	-5	-1	-2	-7	-0.7	30	TO-3PI	Power amplifier
100	-10	-140	2SA1491	-140	-6	50-	-4	-3	-2	-5	-0.5	20	TO-3PN	General purpose
100	-10	-140	2SA1695	-140	-6	50-180	-4	-3	-0.5	-5	-0.5	20	TO-3PN	General purpose
100	-10	-140	2SA1941	-140	-5	55-160	-5	-1	-2	-7	-0.7	30	TO-3PI	Power amplifier
100	-10	-140	2SB863	-140	-5	55-160	-5	-1	-2	-5	-0.5	15	TO-3PI	Power amplifier
100	10	150	2SC2837	150	5	50-	4	3	2	5	0.5	70	TO-3PN	General purpose
100	10	150	2SD2390	160	5	5K-	4	7	2.5	7	0.007	55	TO-3PN	Power amplifier
100	-10	-150	2SA1068	-150	-5	60-150	-4	-3	-2	-5	-0.5	50	TO-3	General purpose amplifier
100	-10	-150	2SB1560	-160	-5	5K-	-4	-7	-2.5	-7	-0.007	50	TO-3PN	General purpose
100	-10	-180	2SA1180	-180	-6	30-	-4	-5	-2	-5	-0.5		TO-3	General purpose
100	10	200	2SD536	200	5	50-	5	5	1	5	1		TO-3	Power amplifier
100	10	200	BUY69C	500	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	High voltage /Fast switching
100	10	325	BUY69B	800	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	High voltage /Fast switching

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)}			f _T	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
100	10	350	BUW24	450	7	10-80	5	1	0.8	4	0.8		TO-3	Clocked voltage converter
100	10	400	BUX80	800	10	30*	5	1.2	3	8	2.5		TO-3	Motor control/Converter
100	10	400	BUY69A	1000	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	High voltage /Fast switching
100	10	500	2SC3831	600	10	10-30	4	5	0.5	5	1	8	TO-3PN	General purpose
100	10	800	2SC5124	1500	6	8-	5	1	5	8	2	3	TO-3PML	General purpose
100	12	40	2N5989	60	5	20-120	2	6	1.7	12	1.8	>2	TO-3PN	Switching and amplifier
100	12	40	2N6569	45	5	15-200	3	4	4	12	2.4	1.5-20	TO-3	Switching/Low-voltage amplifier
100	-12	-40	2N6594	-45	-5	15-200	-3	-4	-4	-12	-2.4	1.5-20	TO-3	Switching/Low-voltage amplifier
100	-12	-50	2SA1205	-70	-6	40-	-0.5	-5	-0.5	-5	-0.12	20	TO-3PN	General purpose
100	12	60	2N5990	80	5	20-120	2	6	1.7	12	1.8	>2	TO-3PN	Switching and amplifier
100	12	80	2N5991	100	5	20-120	2	6	1.7	12	1.8	>2	TO-3PN	Switching and amplifier
100	-12	-120	2SB556	-120	-5	40-140	-5	-2	-3	-6	-0.6	6	TO-3	Power amplifier
100	12	140	2SD425	140	5	40-140	5	2	3	7	0.7	5	TO-3	Power amplifier
100	12	140	2SD733	160	6	40-320	5	1	2.5	6	0.6	15	TO-3	Power amplifier
100	12	140	2SD1047	160	6	60-200	5	1	2.5	5	0.5	15	TO-3PN	Power amplifier/Power switching
100	-12	-140	2SA1050	-140	-5	55-160	-5	-1	-2.5	-8	-0.8	70	TO-3	Power amplifier
100	-12	-140	2SB555	-140	-5	40-140	-5	-2	-3	-7	-0.7	6	TO-3	Power amplifier
100	-12	-140	2SB697	-160	-6	40-320	-5	-1	-2.5	-6	-0.6	15	TO-3	Power amplifier
100	-12	-140	2SB817	-160	-6	60-200	-5	-1	-1.1*	-5	-0.5	15	TO-3PN	AF output
100	12	160	2SD426	160	5	40-140	5	2	3	6	0.6	5	TO-3	Power amplifier
100	12	160	2SD733K	180	6	40-320	5	1	2.5	6	0.6	15	TO-3	Power amplifier
100	-12	-160	2SB697K	-180	-6	40-320	-5	-1	-2.5	-6	-0.6	15	TO-3	Power amplifier
100	12	400	2SC5071	500	10	10-30	4	7	0.5	7	1.4	10	TO-3PN	General purpose
100	15	45	2N6492	55	5	500-	4	3	3	10	0.1		TO-3	Amplifier/Low-frequency switching
100	15	70	2N6493	100	5	500-	4	4	3	10	0.1		TO-3	Amplifier/Low-frequency switching
100	15	80	2N6494	100	5	500-	4	5	3	10	0.1		TO-3	Amplifier/Low-frequency switching
100	15	100	2SD1435	100	7	1K-	3	8	3	15	0.15		TO-3PN	Low frequency power amplifier
100	15	100	2SD1026	100	7	1.5K-	3	10	1.5	10	0.02	20	TO-247	Power switching
100	-15	-100	2SB1230	-110	-6	50-	-2	-1.5	-0.8	-6	-0.6		TO-3PN	Driver
100	-15	-120	2SA1041	-120	-7	35-200	-5	-1.5	-1.5	-7	-0.7	60	TO-3	High frequency amplifier
100	15	140	2SD1895	160	5	5K-	5	7	2.5	7	0.007	20	TO-3PFa	Power amplifier
100	-15	-140	2SB1255	-160	-8	5K-	-5	-7	-2.5	-7	-0.007	20	TO-3PFa	Power amplifier
100	15	400	2SC2246	450	5	10-	5	6	1.2	6	1.2		TO-3	Power amplifier and driver
100	20	100	2SD1559	100	7	1K-	3	10	3	20	0.2		TO-3PI	Low frequency power amplifier
110	5	225	2N5804	300	6	20-100	4	5	1	5	1	>15	TO-3	Switching regulator/Driver
110	5	300	2N5805	375	6	20-100	4	5	1	5	1	>15	TO-3	Switching regulator/Driver
110	6	400	BUT18	850	9	10-35	5	1	1.5	4	0.8		TO-220	Converter/Inverter /Motor control
110	6	450	BUT18A	1000	9	10-35	5	1	1.5	4	0.8		TO-220	Converter/Inverter /Motor control
110	12	400	BUT76	850	7	3.2-	3	8	1.5	6	1.2	7	TO-220	Motor driver/Relay driver
110	12	450	BUT76A	1000	7	3.2-	3	8	1.5	5	1	7	TO-220	Motor driver/Relay driver
115	7	60	2N5873	60	5	20-100	4	2.5	1	5	0.5	>4	TO-3	Switching and amplifier
115	-7	-60	2N5871	-60	-5	20-100	-4	-2.5	-1	-5	-0.5	>4	TO-3	Switching and amplifier
115	7	80	2N5874	80	5	20-100	4	2.5	1	5	0.5	>4	TO-3	Switching and amplifier
115	-7	-80	2N5872	-80	-5	20-100	-4	-2.5	-1	-5	-0.5	>4	TO-3	Switching and amplifier
115	7.5	60	2N3232	80	7	18-55	10	5	1	5	0.5		TO-3	Power switching
115	7.5	60	2N3447	80	7	40-120	5	5	3	7	1.5		TO-3	Switching and amplifier
115	7.5	80	2N3445	80	7	20-60	5	3	3	7	1.5		TO-3	Switching and amplifier
115	7.5	100	2N3233	110	7	18-55	10	5	1	5	0.5		TO-3	Power switching
115	7.5	100	2N3446	100	7	20-60	5	3	3	7	1.5		TO-3	Switching and amplifier
115	7.5	100	2N3448	100	7	50-120	5	5	3	7	1.5	10	TO-3	Switching and amplifier
115	7.5	160	2N3234	160	7	18-55	10	5	1	5	0.5		TO-3	Power switching
115	10	60	BD311	60	5	25-	4	5	1	5	0.5	>4	TO-3	Power amplifier
115	-10	-60	BD312	-60	-5	25-	-4	-5	-1	-5	-0.5	>4	TO-3	Power amplifier
115	15	45	2N6253	55	5	20-70	4	3	4	15	5		TO-3	Regulator and amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
115	15	55	2N3235	65	7	20-70	5	5	1.1	4	0.4		TO-3	Power switching
115	15	60	2N3055	100	7	20-70	4	4	1.1	4	0.4	>2.5	TO-3	Switching and amplifier
115	15	60	2N3055A	100	7	20-70	4	4	5	15	7	>0.8	TO-3	Switching and amplifier
115	-15	-60	MJ2955	-100	-7	20-70	-4	-4	-3	-10	-3.3	>2.5	TO-3	Switching and amplifier
115	-15	-60	MJ2955A	-100	-7	20-70	-4	-4	-5	-15	-7	>2.2	TO-3	Switching and amplifier
115	15	80	2N6254	100	7	20-70	2	5	4	15	3		TO-3	Regulator and amplifier
115	20	45	BD745	50	5	20-150	4	5	3	20	5		TO-3PN	Power linear and switching
115	-20	-45	BD746	-50	-5	20-150	-4	-5	-3	-20	-5		TO-3PN	Power linear and switching
115	20	60	BD745A	70	5	20-150	4	5	3	20	5		TO-3PN	Power linear and switching
115	-20	-60	BD746A	-70	-5	20-150	-4	-5	-3	-20	-5		TO-3PN	Power linear and switching
115	20	80	BD745B	90	5	20-150	4	5	3	20	5		TO-3PN	Power linear and switching
115	-20	-80	BD746B	-90	-5	20-150	-4	-5	-3	-20	-5		TO-3PN	Power linear and switching
115	20	100	BD745C	110	5	20-150	4	5	3	20	5		TO-3PN	Power linear and switching
115	-20	-100	BD746C	-110	-5	20-150	-4	-5	-3	-20	-5		TO-3PN	Power linear and switching
117	10	140	2N3442	160	7	20-70	4	3	5	10	2	>0.08	TO-3	Regulator/Power switches
117	12	60	BDX65	80	5	1K-	3	5	2	5	0.02	7	TO-3	Power amplifier and switching
117	12	100	BDX65B	120	5	1K-	3	5	2	5	0.02	7	TO-3	Power amplifier and switching
117	12	120	BDX65C	120	5	1K-	3	5	2	5	0.02	7	TO-3	Power amplifier and switching
117	-12	-120	BDX64C	-120	-5	1K-	-3	-5	-2	-5	-0.02	7	TO-3	Power amplifier and switching
117	15	40	2N6371	50	5	15-60	4	8	4	16	4	0.8	TO-3	Regulator/Amplifier
117	15	45	BD142	45	7	12.5-160	4	4	1.1	4	0.4		TO-3	Power amplifier
117	15	60	BDY55	100	7	20-70	4	4	2.5	10	3.3	>10	TO-3	Power amplifier and switching
117	15	120	BDY56	150	7	20-70	4	4	2.5	10	3.3	>10	TO-3	Power amplifier and switching
117	16	60	BDX67	80	5				2	10	0.04		TO-3	Power amplifier and switching
117	16	100	BDX67B	120	5				2	10	0.04		TO-3	Power amplifier and switching
117	16	120	BDX67C	140	5				2	10	0.04		TO-3	Power amplifier and switching
120	7	800	2SC3680	900	7	10-30	4	3	0.5	3	0.6	6	TO-3PN	General purpose
120	8	160	2SD2222	160	5	3.5K-	5	7	3	7	0.007	20	TO-3PL	Power amplifier
120	9	450	BUV47A	1000	7	15-50	5	1	3	8	2.5	8	TO-3PN	DC and AC motor control
120	-10	-150	2SA1065	-150	-5	40-280	-5	-2	-2	-10	-1	50	TO-3	High power amplifier
120	-10	-150	2SA1107	-150	-5	55-160	-5	-1	-2	-5	-0.5	50	MT-200	General purpose
120	10	400	BU921	450	5	500-	2	2	1.8	7	0.14		TO-3	Inverter circuits for motor control
120	10	450	BU922	500	5	500-	2	2	1.8	7	0.14		TO-3	Inverter circuits for motor control
120	10	550	2SC3927	900	7	10-28	4	5	0.5	5	1	6	TO-3PN	General purpose
120	12	100	BDX87C	100	5	750-18K	3	6	3	12	0.12		TO-3	Power linear and switching
120	-12	-100	BDX88C	-100	-5	750-18K	-3	-6	-3	-12	-0.12		TO-3	Power linear and switching
120	-12	-120	2SA1072	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-3	High-frequency power amplifier
120	-12	-120	2SA1075	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	MT-200	High-frequency power amplifier
120	-12	-130	2SA1108	-130	-5	55-160	-5	-2	-2	-5	-0.5	60	MT-200	Power amplifier
120	-12	-140	2SA1094	-140	-5	55-240	-5	-1	-2	-5	-0.5	70	MT-200	Power amplifier
120	12	150	2SC2838	150	5	60-	4	3	1.8	5	0.5	70	MT-200	High frequency power amplifier
120	12	150	2SD845	150	5	55-160	5	1	2	5	0.5	20	MT-200	Power amplifier
120	-12	-150	2SA1187	-150	-5	50-	-4	-3	-2	-5	-0.5	60	MT-200	General purpose
120	-12	-150	2SB755	-150	-5	55-160	-5	-1	-2	-5	-0.5	20	MT-200	Power amplifier
120	12	160	2SC3280	160	5	55-160	5	1	2.5	8	0.8	30	TO-3PL	Power amplifier
120	12	160	2SC5199	160	5	55-160	5	1	2.5	8	0.8	30	TO-3PL	Power amplifier
120	12	160	2SD1717	160	5	60-200	5	1	2	8	0.8	20	TO-3PL	Power amplifier
120	12	160	2SD2066	160	5	60-200	5	1	2	8	0.8	20	TO-3PN	Power amplifier
120	-12	-160	2SA1073	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-3	High-frequency power amplifier
120	-12	-160	2SA1076	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	60	MT-200	High-frequency power amplifier
120	-12	-160	2SA1301	-160	-5	55-160	-5	-1	-2.5	-8	-0.8	30	TO-3PL	Power amplifier
120	-12	-160	2SA1389	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	30	MT-200	High frequency power amplifier
120	-12	-160	2SA1942	-160	-5	55-160	-5	-1	-2.5	-8	-0.8	30	TO-3PL	Power amplifier
120	-12	-160	2SB1161	-160	-5	60-200	-5	-1	-2	-8	-0.8	20	TO-3PFa	High power amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)	V _{CE} (V)	I _C (A)		max	I _C (A)	I _B (A)	TYP		
120	-12	-160	2SB1162	-160	-5	60-200	-5	-1	-2	-8	-0.8	20	TO-3PL	High power amplifier
120	12	250	BUV42	350	7				0.9	4	0.4		TO-3	Switching application
120	15	60	2N6576	60	7	2K-20K	3	4	4	15	0.15		TO-3	Switching/Driver/Regulator
120	15	90	2N6577	90	7	2K-20K	3	4	4	15	0.15		TO-3	Switching/Driver/Regulator
120	15	120	2N6578	120	7	2K-20K	3	4	4	15	0.15		TO-3	Switching/Driver/Regulator
120	15	200	BUX41	250	7	15-45	4	5	1.6	8	1	>8	TO-3	Motor control
120	15	400	2SC4139	500	10	10-30	4	8	0.5	8	1.6	10	TO-3PN	General purpose
120	20	125	BUX40	160	7	15-45	4	10	1.6	15	1.88	>8	TO-3	Motor control
120	30	90	BUX39	120	7	15-45	4	12	1.6	20	2.5	>8	TO-3	Amplifier/Converter/Inverter
125	5	400	2N5241	400	5	15-35	5	2.5	2	2	0.4		TO-3	Switching regulator, inverter
125	8	250	2N6306	500	8	15-75	5	3	5	8	2	>5	TO-3	Switching regulator/Amplifier
125	8	300	2N6307	600	8	15-75	5	3	5	8	2	>5	TO-3	Switching regulator/Amplifier
125	8	350	2N6308	700	8	12-60	5	3	5	8	2.67	>5	TO-3	Switching regulator/Amplifier
125	8	400	BUS12	850	10	15-	5	1	3	8	2.5		TO-3	CRT scanning/Inverter
125	9	400	BUX47	850	7	15-50	5	1	3	9	3		TO-3	High voltage /Fast switching
125	9	450	BUX47A	1000	7	15-50	5	1	3	8	2.5		TO-3	High voltage /Fast switching
125	10	60	TIP140	60	5	1K-	4	5	3	10	0.04		TO-3PN	Amplifier/Low-speed switching
125	-10	-60	TIP145	-60	-5	1K-	-4	-5	-3	-10	-0.04		TO-3PN	Amplifier/Low-speed switching
125	10	80	TIP141	80	5	1K-	4	5	3	10	0.04		TO-3PN	Amplifier/Low-speed switching
125	-10	-80	TIP146	-80	-5	1K-	-4	-5	-3	-10	-0.04		TO-3PN	Amplifier/Low-speed switching
125	10	100	TIP142	100	5	1K-	4	5	3	10	0.04		TO-3PN	Amplifier/Low-speed switching
125	-10	-100	TIP147	-100	-5	1K-	-4	-5	-3	-10	-0.04		TO-3PN	Amplifier/Low-speed switching
125	10	320	TIP160	320	5	200-	2.2	4	2.9	10	1		TO-3PN	Switching and motor control
125	10	325	MJ413	400	5	20-80	5	0.5	0.8	0.5	0.05	>2.5	TO-3	Inverter/Converter/Regulator
125	10	325	MJ423	400	5	30-90	5	1	0.8	1	0.1	>2.5	TO-3	Inverter/Converter/Regulator
125	10	350	TIP161	350	5	200-	2.2	4	2.9	10	1		TO-3PN	Switching and motor control
125	10	380	TIP162	380	5	200-	2.2	4	2.9	10	1		TO-3PN	Switching and motor control
125	10	400	BUW34	500	7	15-50	5	1	1.5	5	1		TO-3	High voltage /Fast switching
125	10	400	BUW35	800	7	15-50	5	1	1.5	8	2.5	>8	TO-3	High voltage /Fast switching
125	10	450	BUW36	900	7	15-50	5	1	3	8	2.5		TO-3	High voltage /Fast switching
125	10	800	MJW16018	1500	6	4-	5	5	5	10	5		TO-247	Switching regulator
125	12	60	BDV65	60	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier/Low-speed switching
125	-12	-60	BDV64	-60	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier/Low-speed switching
125	12	80	BDV65A	80	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier/Low-speed switching
125	-12	-80	BDV64A	-80	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier/Low-speed switching
125	12	100	BDV65B	100	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier/Low-speed switching
125	-12	-100	BDV64B	-100	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier/Low-speed switching
125	12	120	BDT65C	120	5	1K-	4	5	3	10	0.1		TO-220	Amplifier and switching
125	12	120	BDV65C	120	5	1K-	4	5	2	5	0.02		TO-3PN	Amplifier/Low-speed switching
125	-12	-120	BDV64C	-120	-5	1K-	-4	-5	-2	-5	-0.02		TO-3PN	Amplifier/Low-speed switching
125	-12	-160	2SB656	-160	-5	60-200	-5	-1	-3	-10	-1	20	TO-3	Power amplifier
125	14	150	2SC3284	150	5	50-180	4	5	2	5	0.5	60	TO-3PN	General purpose
125	-14	-150	2SA1303	-150	-5	50-180	-4	-5	-2	-5	-0.5	50	TO-3PN	General purpose
125	15	40	2N6470	50	5	20-150	4	5	3.5	15	3	>4	TO-3	Switching and amplifier
125	-15	-40	2N6469	-50	-5	20-150	-4	-5	-3.5	-15	-3	>4	TO-3	Switching and amplifier
125	15	60	2N6471	70	5	20-150	4	5	3.5	15	3	>4	TO-3	Switching and amplifier
125	-15	-60	2N6246	-70	-5	20-100	-4	-7	-2.5	-15	-3		TO-3	Switching and amplifier
125	15	80	2N6472	90	5	20-150	4	5	3.5	15	3	>4	TO-3	Switching and amplifier
125	-15	-80	2N6247	-90	-5	20-100	-4	-6	-3.5	-15	-4		TO-3	Switching and amplifier
125	-15	-100	2N6248	-110	-5	20-100	-4	-5	-3.5	-10	-2		TO-3	Switching and amplifier
125	-15	-120	BDT88	-120	-5	40-	-4	-5	-1.6	-7	-0.7	20	TO-220	Power linear and switching
125	15	600	BUV48B	1200	7	15-50	5	1	3	10	4		TO-3PN	Inverter/Solenoid and relay driver
125	15	700	BUV48C	1200	7	15-50	5	1	3	10	4		TO-3PN	Inverter/Solenoid and relay driver
125	25	40	TIP35	40	5	15-75	4	15	4	25	5	>3	TO-3PN	Power amplifier and switching

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
125	-25	-40	TIP36	-40	-5	15-75	-4	-15	-4	-25	-5	>3	TO-3PN	Power amplifier and switching
125	25	45	BD249	55	5	25-	4	1.5	4	25	5		TO-3PN	Power amplifier and switching
125	-25	-45	BD250	-55	-5	25-	-4	-1.5	-4	-25	-5		TO-3PN	Power amplifier and switching
125	25	60	BD249A	70	5	25-	4	1.5	4	25	5		TO-3PN	Power amplifier and switching
125	25	60	TIP35A	60	5	15-75	4	15	4	25	5	>3	TO-3PN	Power amplifier and switching
125	-25	-60	BD250A	-70	-5	25-	-4	-1.5	-4	-25	-5		TO-3PN	Power amplifier and switching
125	-25	-60	TIP36A	-60	-5	15-75	-4	-15	-4	-25	-5	>3	TO-3PN	Power amplifier and switching
125	25	80	BD249B	90	5	25-	4	1.5	4	25	5		TO-3PN	Power amplifier and switching
125	25	80	TIP35B	80	5	15-75	4	15	4	25	5	>3	TO-3PN	Power amplifier and switching
125	-25	-80	BD250B	-90	-5	25-	-4	-1.5	-4	-25	-5		TO-3PN	Power amplifier and switching
125	-25	-80	TIP36B	-80	-5	15-75	-4	-15	-4	-25	-5	>3	TO-3PN	Power amplifier and switching
125	25	100	BD249C	115	5	25-	4	1.5	4	25	5		TO-3PN	Power amplifier and switching
125	25	100	TIP35C	100	5	15-75	4	15	4	25	5	>3	TO-3PN	Power amplifier and switching
125	-25	-100	BD250C	-115	-5	25-	-4	-1.5	-4	-25	-5		TO-3PN	Power amplifier and switching
125	-25	-100	TIP36C	-100	-5	15-75	-4	-15	-4	-25	-5	>3	TO-3PN	Power amplifier and switching
130	12	180	2SC3907	180	5	55-180	5	1	2	8	0.8	30	TO-3PI	General purpose
130	-12	-180	2SA1516	-180	-5	55-180	-5	-1	-3	-8	-0.8	25	TO-3PI	Power amplifier
130	14	600	2SC4706	900	7	10-25	4	7	0.5	7	1.4	6	TO-3PN	General purpose
130	15	150	2SD2560	150	5	5K-	4	10	2.5	10	0.01	70	TO-3PN	Series regulator
130	-15	-150	2SB1647	-150	-5	5K-	-4	-10	-2.5	-10	-0.01	45	TO-3PN	General purpose
130	15	160	2SC3519	160	5	50-180	4	5	2	5	0.5	50	TO-3PN	General purpose
130	-15	-160	2SA1386	-160	-5	50-180	-4	-5	-2	-5	-0.5	40	TO-3PN	General purpose
130	15	180	2SC3519A	180	5	50-180	4	5	2	5	0.5	50	TO-3PN	General purpose
130	15	180	2SC3856	200	6	50-180	4	3	2	5	0.5	20	TO-3PN	General purpose
130	-15	-180	2SA1386A	-180	-5	50-180	-4	-5	-2	-5	-0.5	40	TO-3PN	General purpose
130	-15	-180	2SA1492	-180	-6	50-180	-4	-3	-2	-5	-0.5	20	TO-3PN	General purpose
130	15	200	2SD2488	200	5	5K-	4	10	2.5	10	0.01	70	TO-3PN	Series regulator
130	15	230	2SC3263	230	5	50-140	4	5	2	5	0.5	60	TO-3PN	General purpose
130	15	230	2SC5242	230	5	55-160	5	1	3	8	0.8	30	TO-3PI	Power amplifier
130	-15	-230	2SA1294	-230	-5	50-140	-4	-5	-2	-5	-0.5	35	TO-3PN	General purpose
130	-15	-230	2SA1962	-230	-5	55-160	-5	-1	-3	-8	-0.8	30	TO-3PI	Power amplifier
130	18	400	2SC4140	500	10	10-30	4	10	0.5	10	2	10	TO-3PN	General purpose
135	15	450	MJW16010	850	6	5-	5	15	3	10	1.3		TO-247	High voltage inverter
140	15	110	2N6496	150	7	12-100	2	8	1	8	0.8		TO-3	Switching and amplifier
140	20	75	2N5039	120	7	20-100	5	10	2.5	20	5		TO-3	Switching regulator, inverter
140	20	90	2N5038	150	7	20-100	5	12	2.5	20	5		TO-3	Switching regulator, inverter
140	30	90	2N5671	120	7	20-100	2	15	0.75	15	1.2	>40	TO-3	High current, fast switching
140	30	120	2N5672	150	7	20-100	2	15	0.75	15	1.2	>40	TO-3	High current, fast switching
150	6	100	2N5758	100	7	25-100	2	3	2	6	1.2	>1	TO-3	Switching regulator circuits
150	-6	-100	2N6226	-100	-7	25-100	-2	-3	-1.2	-4	-0.4	>1	TO-3	High power amplifier
150	6	120	2N5759	120	7	20-80	2	3	2	6	1.2	>1	TO-3	Switching regulator circuits
150	-6	-120	2N6227	-120	-7	20-80	-2	-3	-1.2	-4	-0.4	>1	TO-3	High power amplifier
150	6	140	2N5760	140	7	15-60	2	3	2	6	1.2	>1	TO-3	Switching regulator circuits
150	-6	-140	2N6228	-140	-7	15-60	-2	-3	-1.2	-4	-0.4	>1	TO-3	High power amplifier
150	8	300	2N6671	450	8	10-40	3	5	2	8	4	15-60	TO-3	Off-line power supply/Inverter
150	8	350	2N6672	550	8	10-40	3	5	2	8	4	15-60	TO-3	Off-line power supply/Inverter
150	8	400	2N6673	650	8	10-40	3	5	2	8	4	15-60	TO-3	Off-line power supply/Inverter
150	-10	-40	2N4907	-40	-7	20-80	-4	-4	-1	-5	-0.5	>4	TO-3	Power amplifier/Switching
150	10	60	2N5877	60	5	20-100	4	4	3	10	2.5	>4	TO-3	Power amplifier/Switching
150	10	60	MJ3000	60	5	1K-	3	5	4	10	0.05		TO-3	General purpose amplifier
150	-10	-60	2N3791	-60	-7	50-180	-2	-1	-1	-5	-0.5	>4	TO-3	Medium-speed switching
150	-10	-60	2N4908	-60	-7	20-80	-4	-4	-1	-5	-0.5	>4	TO-3	Power amplifier/Switching
150	-10	-60	2N5875	-60	-5	20-100	-4	-4	-3	-10	-2.5	>4	TO-3	Power amplifier/Switching
150	-10	-60	MJ2500	-60	-5	1K-	-3	-5	-4	-10	-0.05		TO-3	General purpose amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)}			f _T (MHz)	Package	Function
						V _{CE} (V)	I _C (A)		max	I _C (A)	I _B (A)			
150	10	80	2N3716	100	7	50-150	2	1	0.8	5	0.5	>4	TO-3	Power switching
150	10	80	2N5878	80	5	20-100	4	4	3	10	2.5	>4	TO-3	Power amplifier/Switching
150	10	80	MJ3001	80	5	1K-	3	5	4	10	0.05		TO-3	General purpose amplifier
150	-10	-80	2N3792	-80	-7	50-180	-2	-1	-1	-5	-0.5	>4	TO-3	Medium-speed switching
150	-10	-80	2N4909	-80	-7	20-80	-4	-4	-1	-5	-0.5	>4	TO-3	Power amplifier/Switching
150	-10	-80	2N5876	-80	-5	20-100	-4	-4	-3	-10	-2.5	>4	TO-3	Power amplifier/Switching
150	-10	-80	MJ2501	-80	-5	1K-	-3	-5	-4	-10	-0.05		TO-3	General purpose amplifier
150	10	100	2N5632	100	7	25-100	5	5	3	10	2	>1	TO-3	Power amplifier/Switching
150	-10	-100	2N6229	-100	-7	25-100	-2	-5	-1	-4	-0.4	>1	TO-3	High power amplifier
150	10	120	2N5633	120	7	20-80	5	5	3	10	2	>1	TO-3	Power amplifier/Switching
150	-10	-120	2N6230	-120	-7	20-80	-2	-5	-1	-4	-0.4	>1	TO-3	High power amplifier
150	10	140	2N5634	140	7	15-60	5	5	3	10	2	>1	TO-3	Power amplifier/Switching
150	-10	-140	2N6231	-140	-7	15-60	-2	-5	-1	-4	-0.4	>1	TO-3	High power amplifier
150	10	300	2N6931	450	8	8-35	3	10	1	10	2		TO-3PN	High voltage inverter
150	10	400	2N6932	650	8	8-35	3	10	1	10	2		TO-3PN	High voltage inverter
150	10	450	BUX81	1000	10	20-	5	1.2	3	8	2.5	8	TO-3	Switching amplifier/Converter
150	12	80	2N6058	80	5	750-	3	6	3	12	0.12	>4	TO-3	Amplifier/Low-frequency switching
150	12	100	2N6059	100	5	750-	3	6	3	12	0.12	>4	TO-3	Amplifier/Low-frequency switching
150	12	100	2N6360	120	7	15-	4	6	4	12	2.4	>0.2	TO-3	Driver/Converter/Inverter
150	12	140	2SC2564	140	5	55-240	5	1	2	5	0.5	80	MT-200	Power amplifier
150	12	150	2SD2401	160	5	5K-	4	7	2.5	7	0.007	55	MT-200	Series regulator
150	15	60	2N5970	80	5	20-60	1.5	5	4	15	3.75	>4	TO-3	Power amplifier/Switching
150	15	80	2N5972	100	5	25-75	1.5	5	4	15	3.75	>4	TO-3	Power amplifier/Switching
150	15	100	2N5973	120	5	25-75	1.5	5	4	15	3.75	>4	TO-3	Power amplifier/Switching
150	-15	-150	2SA1051	-150	-5	55-160	-5	-1	-3	-10	-1	60	TO-3	General purpose power amplifier
150	-15	-150	2SA1166	-150	-6	50-	-4	-5	-2	-5	-0.5	60	MT-200	General purpose
150	15	160	2SC2565	160	5	55-240	5	1	2	5	0.5	80	MT-200	Power amplifier
150	15	160	2SC2921	160	5	50-	4	5	2	5	0.5	60	MT-200	General purpose
150	-15	-160	2SA1095	-160	-5	55-240	-5	-1	-2	-5	-0.5	60	MT-200	Power amplifier
150	-15	-160	2SA1215	-160	-5	50-180	-4	-5	-2	-5	-0.5	50	MT-200	General purpose
150	15	180	2SD424	180	5	40-140	5	2	3	10	1	5	TO-3	Power amplifier
150	15	180	2SD552	220	5	25-80	5	5	2	10	1	>4	TO-3	Power amplifier/Power switching
150	15	180	2SD1718	180	5	60-200	5	1	2.5	10	1	20	TO-3PL	Power amplifier
150	15	180	2SD1975	180	5	60-200	5	1	2.5	10	1	20	TO-3PL	Power amplifier
150	15	180	2SD2155	180	5	55-160	5	1	2	8	0.8	10	TO-3PL	Power amplifier
150	-15	-180	2SA1147	-180	-6	30-	-4	-5	-3	-10	-1	60	TO-3	General purpose
150	-15	-180	2SB552	-220	-5	25-80	-5	-5	-2	-10	-1	3.5	TO-3	Power amplifier
150	-15	-180	2SB554	-180	-5	40-140	-5	-2	-3	-10	-1	6	TO-3	Power amplifier
150	-15	-180	2SB1163	-180	-5	60-200	-5	-1	-2.5	-10	-1	20	TO-3PL	High power amplifier
150	-15	-180	2SB1317	-180	-5	60-200	-5	-1	-2.5	-10	-1	20	TO-3PL	High power amplifier
150	-15	-180	2SB1429	-180	-5	55-160	-5	-1	-3	-8	-0.8	10	TO-3PL	Power amplifier
150	15	200	2SC1586	250	6	60-	4	5	2	5	0.5	10	TO-3	General purpose
150	15	200	2SC2773	200	6	50-180	4	5	3	10	1	20	MT-200	General purpose
150	15	200	2SC3281	200	5	55-160	5	1	2.5	8	0.8	25	TO-3PL	Power amplifier
150	15	200	2SC3857	200	6	50-180	4	5	3	10	1	20	MT-200	General purpose
150	15	200	2SD665	200	5	20-140	5	1	2	10	1	15	TO-3	Power amplifier/Power switching
150	15	200	2SD1975A	200	5	60-200	5	1	2.5	10	1	20	TO-3PL	Power amplifier
150	-15	-200	2SA1116	-200	-6	30-	-4	-5	-3	-10	-1	20	TO-3	General purpose
150	-15	-200	2SA1169	-200	-6	50-	-4	-5	-2	-5	-0.5	20	MT-200	General purpose
150	-15	-200	2SA1302	-200	-5	55-160	-5	-1	-2.5	-8	-0.8	25	TO-3PL	Power amplifier
150	-15	-200	2SA1333	-200	-5	50-	-4	-5	-2	-5	-0.5	30	MT-200	General purpose
150	-15	-200	2SA1493	-200	-6	50-180	-4	-5	-3	-10	-1	20	MT-200	General purpose
150	-15	-200	2SB645	-200	-5	40-140	-5	-1	-3	-10	-1	12	TO-3	General purpose
150	15	230	2SC4029	230	5	55-160	5	1	3	8	0.8	30	TO-3PL	Power amplifier

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
150	15	230	2SC5358	230	5	55-160	5	1	3	8	0.8	30	TO-3PI	Power amplifier
150	-15	-230	2SA1553	-230	-5	55-160	-5	-1	-3	-8	-0.8	25	TO-3PL	Power amplifier
150	-15	-230	2SA1943	-230	-5	55-160	-5	-1	-3	-8	-0.8	30	TO-3PL	Power amplifier
150	-15	-230	2SA1986	-230	-5	55-160	-5	-1	-3	-8	-0.8	30	TO-3PI	Power amplifier
150	15	400	2SD641	600	7	20-140	5	5	1.5	10	2	4	TO-3	Converter/Inverter /Motor control
150	15	400	BUV48	850	7	8-	5	10	5	15	3		TO-3PN	Inverter/Solenoid and relay driver
150	15	450	BU932	500	5	300-	10	5	1.8	8	0.15		TO-3	Inverter circuits for motor control
150	15	450	BUV48A	1000	7	8-	5	8	5	12	2.4		TO-3PN	Inverter/Solenoid and relay driver
150	16	60	MJ4033	60	5	1K-	3	10	4	16	0.08		TO-3	General purpose amplifier
150	-16	-60	BDX66	-60	-5				-2	-10	-0.04		TO-3	Power amplifier and switching
150	16	80	2N6359	100	7	15-60	4	8	4	16	3.2	>0.2	TO-3	Driver/Converter/Inverter
150	16	80	MJ4034	80	5	1K-	3	10	4	16	0.08		TO-3	General purpose amplifier
150	16	100	MJ4035	100	5	1K-	3	10	4	16	0.08		TO-3	General purpose amplifier
150	-16	-100	BDX66B	-100	-5				-2	-10	-0.04		TO-3	Power amplifier and switching
150	-16	-120	BDX66C	-120	-5				-2	-10	-0.04		TO-3	Power amplifier and switching
150	16	140	2N3773	160	7	15-60	4	8	4	16	3.2		TO-3	Relay or solenoid Driver
150	16	140	2N6302	140	7	15-60	4	8	2	16	4	>0.2	TO-3	High power amplifier
150	16	150	2N6259	170	7	15-60	2	8	2.5	16	3.2		TO-3	Amplifier/driver/converter
150	20	40	2N6257	50	5	15-75	4	8	4	20	4	>0.8	TO-3	Amplifier and switching
150	20	40	2N6355	50	5	500-5K	5	4	4	20	1		TO-3	Amplifier/Low-frequency switching
150	20	40	2N6356	50	5	1.5K-20K	5	4	4	20	1		TO-3	Amplifier/Low-frequency switching
150	20	60	2N3772	100	7	15-60	4	10	4	20	4	>0.2	TO-3	Inductive switching
150	20	60	2N6357	80	5	500-5K	5	4	4	20	1		TO-3	Amplifier/Low-frequency switching
150	20	60	2N6358	80	5	1.5K-10K	5	4	4	20	1		TO-3	Amplifier/Low-frequency switching
150	20	300	2N6653	350	6	>10	5	15	1.8	15	3	15	TO-3	Regulator/Inverter/Driver
150	20	350	2N6654	500	6	>10	15	10	2.2	15	3		TO-3	Regulator/Inverter/Driver
150	25	125	BUV50	250	7	30-	4	5	1.2	24	3		TO-3	Clocked voltage converter
150	25	125	BUX10	160	7	20-60	2	10	1.2	20	2	>8	TO-3	Motor control
150	30	40	2N3771	50	5	15-60	4	15	4	30	6	>0.2	TO-3	Inductive switching
150	-30	-70	2SA1044	-70	-7	35-200	-5	-3	-1.5	-15	-1.5	60	TO-3	High frequency amplifier
150	30	80	2N5734	100	7	30-300	2	10	4	30	6	>30	TO-3	Amplifier and switching
150	30	80	2N6270	100	7	20-100	4	15	1	7.5	0.75	75	TO-3	Amplifier and switching
150	30	100	2N6271	120	7	20-100	4	15	1	7.5	0.75	75	TO-3	Amplifier and switching
150	-30	-120	2SA1043	-120	-7	35-200	-5	-3	-1.5	-15	-1.5	60	TO-3	High frequency amplifier
160	15	60	2N5881	60	5	20-100	4	6	4	15	3.75	>4	TO-3	Power amplifier/Switching
160	-15	-60	2N5879	-60	-5	20-100	-4	-6	-4	-15	-3.75	>4	TO-3	Power amplifier/Switching
160	15	80	2N5882	80	5	20-100	4	6	4	15	3.75	>4	TO-3	Power amplifier/Switching
160	-15	-80	2N5880	-80	-5	20-100	-4	-6	-4	-15	-3.75	>4	TO-3	Power amplifier/Switching
160	20	60	2N6282	60	5	750-18K	3	10	3	20	0.2		TO-3	Amplifier/Low-frequency switching
160	-20	-60	2N6285	-60	-5	750-18K	-3	-10	-3	-20	-0.2		TO-3	Amplifier/Low-frequency switching
160	20	80	2N6283	80	5	750-18K	3	10	3	20	0.2		TO-3	Amplifier/Low-frequency switching
160	-20	-80	2N6286	-80	-5	750-18K	-3	-10	-3	-20	-0.2		TO-3	Amplifier/Low-frequency switching
160	20	100	2N6284	100	5	750-18K	3	10	3	20	0.2		TO-3	Amplifier/Low-frequency switching
160	-20	-100	2N6287	-100	-5	750-18K	-3	-10	-3	-20	-0.2		TO-3	Amplifier/Low-frequency switching
175	10	200	2N6249	300	6	10-50	3	10	1.5	10	1	>2.5	TO-3	Inverter and amplifier
175	10	275	2N6250	375	6	8-50	3	10	1.5	10	1.25	>2.5	TO-3	Inverter and amplifier
175	10	350	2N6251	450	6	6-50	3	10	1.5	10	1.67	>2.5	TO-3	Inverter and amplifier
175	10	800	MJ16018	1500	6	4-	5	5	5	10	5		TO-3	Switching regulator
175	15	300	2N6546	650	9	12-60	2	5	5	15	3	6-35	TO-3	Regulator/Motor control/Driver
175	15	300	2N6674	450	7	15-40	3	1	5	15	5	15	TO-3	Regulator/Inverter/Driver
175	15	400	2N6547	850	9	12-60	2	5	5	15	3	6-35	TO-3	Regulator/Motor control/Driver
175	15	400	2N6675	650	7	15-40	3	1	5	15	5	15	TO-3	Regulator/Inverter/Driver
175	15	400	BU931R	450	5	300-	10	5	1.8	10	0.25		TO-3	Inverter circuits for motor control
175	15	400	BUS13	850	9	15-50	5	2	1.5	8	1.6		TO-3	Converter/Inverter /Motor control

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
175	15	400	BUW13	850	9	10-35	5	1.5	1.5	10	2		TO-3PN	Converter/Inverter /Motor control
175	15	400	BUW13W	850	9	10-35	5	1.2	1.5	10	2		TO-247	Converter/Inverter /Motor control
175	15	450	2N6836	850	6	8-30	5	10	2.5	10	1	10-75	TO-3	Regulator/Inverter/Motor control
175	15	450	BU932R	500	5	300-	10	5	1.8	8	0.15		TO-3	Inverter circuits for motor control
175	15	450	BUS13A	1000	9	15-50	5	1	1.5	8	1.6		TO-3	Converter/Inverter /Motor control
175	15	450	BUW13A	1000	9	10-35	5	1.5	1.5	8	1.6		TO-3PN	Converter/Inverter /Motor control
175	15	450	BUW13AW	1000	9	10-35	5	1.2	1.5	8	1.6		TO-247	Converter/Inverter /Motor control
175	15	450	MJ16010	850	6	5-	5	15	3	10	1.3		TO-3	High voltage inverter
175	15	450	MJ16012	850	6	5-	5	15	3	10	1.3		TO-3	High voltage inverter
175	25	80	BDY57	120	10	20-60	4	10	1.4	10	1	>10	TO-3	Power amplifier and switching
175	25	125	BDY58	160	10	20-60	4	10	1.4	10	1	>10	TO-3	Power amplifier and switching
180	15	120	MJ15015	200	7	20-70	4	4	5	15	7	>0.8	TO-3	Driver/Converter/Inverter
180	-15	-120	MJ15016	-200	-7	20-70	-4	-4	-5	-15	-7	>2.2	TO-3	Driver/Converter/Inverter
180	-15	-230	2SA1987	-230	-5	55-160	-5	-1	-3	-8	-0.8	30	TO-3PL	Power amplifier
180	30	120	2SD1037	150	6	20-	4	10	0.5	10	1	1.5	MT-200	Low-frequency power amplifier
200	-10	-180	2SA1109	-180	-5	50-160	-5	-2	-2	-5	-0.5	60	TO-3	High power amplifier
200	10	200	2SD555	250	5	40-200	5	2	5	10	2	15	TO-3	High speed,High current,High Power
200	-10	-200	2SB600	-200	-5	20-	-5	-2	-1.5	-10	-1	>4	TO-3	Power amplifier
200	15	130	2N5498	150	7	10-50	5	15	4	15	3	>1	TO-3	Power switching/Driver
200	15	140	MJ15001	140	5	25-150	2	4	1	4	0.4	>2	TO-3	Regulator/Amplifier/Driver
200	15	140	MJ15001	140	5	25-150	2	4	1	4	0.4	>2	TO-3	Regulator/Amplifier/Driver
200	16	60	BDV67	80	5	1K-	3	10	2	10	0.04		TO-3PN	Amplifier/Low-speed switching
200	16	80	BDV67A	100	5	1K-	3	10	2	10	0.04		TO-3PN	Amplifier/Low-speed switching
200	16	100	2N5629	100	7	25-100	2	8	2	16	4	>1	TO-3	High power amplifier
200	16	100	BD317	100	7	25-	4	5	1	8	0.8	>1	TO-3	High power amplifier
200	16	100	BDV67B	120	5	1K-	3	10	2	10	0.04		TO-3PN	Amplifier/Low-speed switching
200	-16	-100	2N6029	-100	-7	25-100	-2	-8	-2	-16	-4	>1	TO-3	High power amplifier
200	-16	-100	BD318	-100	-7	25-	-4	-5	-1	-8	-0.8	>1	TO-3	High power amplifier
200	16	120	2N5630	120	7	20-80	2	8	2	16	4	>1	TO-3	High power amplifier
200	16	120	BDV67C	140	5	1K-	3	10	2	10	0.04		TO-3PN	Amplifier/Low-speed switching
200	-16	-120	2N6030	-120	-7	20-80	-2	-8	-2	-16	-4	>1	TO-3	High power amplifier
200	16	140	2N5631	140	7	15-60	2	8	2	16	4	>1	TO-3	High power amplifier
200	-16	-140	2N6031	-140	-7	15-60	-2	-8	-2	-16	-4	>1	TO-3	High power amplifier
200	16	150	BDV67D	160	5	1K-	3	10	2	10	0.04		TO-3PN	Amplifier/Low-speed switching
200	17	180	2SC2922	180	5	50-	4	8	2	8	0.8	50	MT-200	General purpose
200	-17	-180	2SA1216	-180	-5	30-	-4	-8	-2	-8	-0.8	40	MT-200	General purpose
200	17	200	2SC2774	200	6	50-140	4	5	2	5	0.5	20	MT-200	General purpose
200	17	200	2SC3858	200	6	50-180	4	8	2.5	10	1	20	MT-200	General purpose
200	-17	-200	2SA1117	-200	-6	20-	-4	-8	-2	-5	-0.5	20	TO-3	General purpose
200	-17	-200	2SA1170	-200	-6	20-	-4	-8	-2.5	-10	-1	20	MT-200	General purpose
200	-17	-200	2SA1494	-200	-6	50-180	-4	-8	-2.5	-10	-1	20	MT-200	General purpose
200	17	230	2SC3264	230	5	50-140	4	5	2	5	0.5	60	MT-200	General purpose
200	-17	-230	2SA1295	-230	-5	50-140	-4	-5	-2	-5	-0.5	35	MT-200	General purpose
200	20	60	PMD16K60	60	5	1K-20K	3	10	2	10	0.04	>4	TO-3	Amplifier/Low-frequency switching
200	20	80	2N5303	80	5	15-60	2	10	2	20	4	>2	TO-3	Power amplifier/Switching
200	20	80	PMD16K80	80	5	1K-20K	3	10	2	10	0.04	>4	TO-3	Amplifier/Low-frequency switching
200	-20	-80	2N5745	-80	-5	15-60	-2	-10	-2	-20	-4	>2	TO-3	Amplifier and switching
200	20	90	2N3237	90	5	15-60	4	10	4	20	4		TO-3	Power switching
200	20	100	PMD16K100	100	5	1K-20K	3	10	2	10	0.04	>4	TO-3	Amplifier/Low-frequency switching
200	20	200	2N6688	300	8	20-80	2	10	1.5	20	2	20-100	TO-3	High Power switching
200	25	60	2N5885	60	5	20-100	4	10	4	25	6.25	>4	TO-3	Power amplifier/Switching
200	-25	-60	2N5883	-60	-5	20-100	-4	-10	-4	-25	-6.25	>4	TO-3	Power amplifier/Switching
200	25	80	2N5886	80	5	20-100	4	10	4	25	6.25	>4	TO-3	Power amplifier/Switching
200	-25	-80	2N5884	-80	-5	20-100	-4	-10	-4	-25	-6.25	>4	TO-3	Power amplifier/Switching

Power Transistors For General Purpose Use

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
200	25	160	2N6686	260	8	25-100	2	10	1.5	25	2.5	20-100	TO-3	High Power switching
200	25	180	2N6687	280	8	25-100	2	10	1.5	25	2.5	20-100	TO-3	High Power switching
200	30	40	2N5301	40	5	15-60	2	15	3	30	6	>2	TO-3	Power amplifier/Switching
200	-30	-40	2N4398	-40	-5	15-60	-2	-15	-2	-20	-2	>4	TO-3	Power amplifier/Switching
200	30	60	2N5302	60	5	15-60	2	15	3	30	6	>2	TO-3	Power amplifier/Switching
200	-30	-60	2N4399	-60	-5	15-60	-2	-15	-2	-20	-2	>4	TO-3	Power amplifier/Switching
200	30	80	2SD797	100	7	60-200	5	1	1.5	15	3	1.5	TO-3	Power amplifier/Power switching
200	30	200	2N6322	300	5	40-150	5	5	3	30	6	>10	TO-3	High current,high power
250	-15	-140	MJ15002	-140	-5	25-150	-2	-4	-1	-4	-0.4	>2	TO-3	Regulator/Amplifier/Driver
250	-15	-200	MJ15027	-200	-7	25-150	-5	-5	-2	-10	-1	>15	TO-3	Power amplifier/Regulator
250	16	200	MJ15022	350	5	15-60	4	8	4	16	3.2	>4	TO-3	Power amplifier/Regulator
250	-16	-200	MJ15023	-350	-5	15-60	-4	-8	-4	-16	-3.2	>4	TO-3	Power amplifier/Regulator
250	16	250	MJ15024	400	5	15-60	4	8	4	16	3.2	>4	TO-3	Power amplifier/Regulator
250	-16	-250	MJ15025	-400	-5	15-60	-4	-8	-4	-16	-3.2	>4	TO-3	Power amplifier/Regulator
250	20	140	MJ15003	140	5	25-150	2	5	1	5	0.5	>2	TO-3	Regulator/Amplifier/Driver
250	-20	-140	MJ15004	-140	-5	25-150	-2	-5	-1	-5	-0.5	>2	TO-3	Regulator/Amplifier/Driver
250	30	80	2N6258	100	5	20-	2	15	1	7.5	0.75	>0.8	TO-3	Amplifier and switching

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ce0}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
1.5	0.1	300	2SC3619	300	7	30-200	10	0.02	1	0.01	0.001	>50	TO-126	Switching and amplifier
10	-0.14	-160	2SA1209	-180	-5	100-400	-5	-0.01	-0.4	-0.05	-0.005	150	TO-126	High-voltage switching
10	0.5	400	2SC2752	500	7	20-80	5	0.05	1	0.3	0.06		TO-126	Switching regulator
10	0.5	400	2SC2899	500	10	15-	5	0.25	1	0.25	0.05		TO-126	High speed and voltage switching
10	0.75	80	2SC1626	80	5	70-240	2	0.15	0.5	0.5	0.05	>50	TO-220	Medium speed switching
10	1.5	160	2SC3117	180	6	100-400	5	0.1	0.45	0.5	0.05	120	TO-126	Switching applications
10	3	30	2SC1096	40	5	40-250	5	1	2	3	0.3	65	TO-202	Large speed switching
10	-3	-30	2SA634	-40	-5	40-250	-5	-1	-2	-3	-0.3	55	TO-202	Low speed switching
10	-3	-40	2SA1217	-40	-5	80-240	-2	-0.5	-0.8	-2	-0.2	100	TO-126	Low speed switching
10	-3	-40	2SA1359	-40	-5	80-240	-2	-0.5	-0.8	-2	-0.2	100	TO-126	Low speed switching
10	3	45	2SC1098	70	5	40-250	5	0.5	2	1.5	0.15	60	TO-202	Large speed switching
10	-3	-45	2SA636	-70	-5	40-250	-5	-0.5	-2	-1.5	-0.15	45	TO-202	Low speed switching
10	3	60	2SC1098A	70	5	40-250	5	0.5	2	1.5	0.15	60	TO-202	Large speed switching
10	-3	-60	2SA636A	-70	-5	40-250	-5	-0.5	-2	-1.5	-0.15	45	TO-202	Low speed switching
10	-5	-30	2SB1657	-30	-6	150-600	-2	-0.5	-1	-3	-0.075	75	TO-126	Power switching
10	-5	-30	2SB1658	-30	-6	150-600	-2	-1	-0.5	-4	-0.2	95	TO-126	Power switching
15	2	100	2SC2331	100	7	40-200	5	1	0.6	1	0.1		TO-220	Switching regulator
15	-2	-100	2SA1008	-100	-7	40-200	-5	-1	-0.6	-1	-0.1		TO-220	Switching regulator
15	2	400	2SC2333	500	7	20-80	5	0.1	1	0.5	0.1		TO-220	Switching regulator
15	2	400	2SC3569	500	7	20-80	5	0.1	1	0.5	0.1		TO-220F	High speed switching
15	3	30	2SC3297	30	5	70-280	2	0.5	1	2	0.2	100	TO-220Fa	High current switching
15	-3	-30	2SA1305	-30	-5	60-320	-3	-0.5	-1	-2	-0.2	100	TO-220Fa	High speed switching
18	2	400	BUX84F	800	10	20-100	5	0.1	1	1	0.2	20	TO-220Fa	Switching regulator
18	2	450	BUX85F	1000	10	20-100	5	0.1	1	1	0.2	20	TO-220Fa	Switching regulator
20	-1.5	-120	2SB536	-130	-5	40-250	-5	-0.3	-2	-1	-0.1	40	TO-220	Low speed power switching
20	2	400	2SC2534	500	6	20-	5	0.5	1	0.5	0.05		TO-220	Switching regulator
20	2	400	2SC2552	500	7	20-	5	0.1	1	1	0.2		TO-220	Switching regulator
20	2	400	2SC3309	500	7	20-	5	0.1	1	1	0.2		TO-220Fa	Switching applications
20	3	40	2SD1413	60	5	2K-	2	1	1.5	2	0.004		TO-220Fa	Power switching
20	-3	-40	2SB1023	-60	-5	2K-	-2	-1	-1.5	-2	-0.004		TO-220Fa	Switching
20	4	80	2SD1414	100	5	2K-	2	1	1.5	3	0.006		TO-220Fa	Power switching
20	-4	-80	2SB1024	-100	-5	2K-	-2	-1	-1.5	-3	-0.006		TO-220Fa	Switching
20	5	50	2SC3299	60	5	70-240	1	1	0.4	3	0.15	120	TO-220Fa	High current switching
20	5	50	2SC4881	60	5	100-320	1	1	0.4	2.5	0.125	100	TO-220F	High current switching
20	-5	-50	2SA1307	-60	-5	70-240	-1	-1	-0.4	-3	-0.15	60	TO-220Fa	High speed switching
20	-5	-50	2SA1387	-60	-7	150-400	-1	-1	-0.4	-3	-0.075	80	TO-220Fa	High current switching
20	5	60	2SC3746	80	5	70-280	2	1	0.4	2.5	0.125	100	TO-220F	Switching regulator driver
20	-5	-60	2SA1469	-80	-5	70-280	-2	-1	-0.4	-2.5	-0.125	100	TO-220F	Switching regulator
20	5	100	2SD1589	150	7	2K-	2	3	1.5	3	0.003		TO-220Fa	Low speed switching
20	-5	-100	2SB1098	-100	-7	2K-	-2	-3	-1.5	-3	-0.003		TO-220F	Low speed switching
23	1	150	2SC867	400	5	50-	3	0.1	1	1	0.2	8	TO-66	High-voltage switching
23	8	400	BUT12F	850	9	10-35	5	1	1.5	6	1.2		TO-220Fa	Switching regulator
23	8	450	BUT12AX	1000	9	10-35	5	1	1.5	5	1		TO-220F	Switching regulator
23	8	450	BUT12AF	1000	9	10-35	5	1	1.5	5	1		TO-220Fa	Switching regulator
25	1	300	2SD198	300	6	30-300	5	0.1	1	1	0.1	25	TO-3	Voltage regulator/Inverter
25	1.5	160	2SC2344	180	6	60-200	5	0.3	0.3*	0.5	0.05	100	TO-220	High voltage switching
25	1.5	500	2SC3352	800	7	15-	5	0.1	1	1	0.2	2.5	TO-220Fa	High current switching
25	1.5	500	2SC3970	800	8	15-	5	0.1	1	0.6	0.17	20	TO-220Fa	Switching applications
25	1.5	500	2SC3970A	900	8	15-	5	0.1	1	0.6	0.17	20	TO-220Fa	Switching applications
25	2	400	2SC3169	500	7	15-	5	0.1	1	1	0.2	8	TO-220Fa	High speed switching
25	2	400	2SC3868	500	7	15-	5	0.1	1	1	0.2	30	TO-220Fa	High speed switching
25	-3	-50	2SB434	-60	-6	40-240	-1	-0.5	-1.2	-3	-0.3	3	TO-220	Power switching
25	-3	-100	2SB668	-100	-5	2K-	-3	-1	-2	-2	-0.008		TO-220	Switching application
25	3	450	2SC4052	600	7	10-	5	1.5	1	1.5	0.3	20	ITO-220	Power switching

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
25	-4	-20	2SB1069	-40	-5	60-260	-2	-1	-0.5	-2	-0.1	150	TO-220	Low-voltage switching
25	-4	-20	2SB1071	-40	-5	60-260	-2	-1	-0.5	-2	-0.1	150	TO-220Fa	Low-voltage switching
25	-4	-20	2SB1603	-40	-5	90-260	-2	-1	-0.5	-2	-0.1	150	TO-220F	Low-voltage switching
25	-4	-40	2SB1069A	-50	-5	60-260	-2	-1	-0.5	-2	-0.1	150	TO-220	Low-voltage switching
25	-4	-40	2SB1071A	-50	-5	60-260	-2	-1	-0.5	-2	-0.1	150	TO-220Fa	Low-voltage switching
25	-4	-40	2SB1603A	-50	-5	90-260	-2	-1	-0.5	-2	-0.1	150	TO-220F	Low-voltage switching
25	4	60	2SC508	180	6	20-	5	4	1.5	4	0.4		TO-66	Power switching
25	4	200	2SD834	250	10	1.5K-	2	2	1.5	2	0.002		TO-220	Switching regulator/Driver
25	4	400	2SC4160	500	7	15-50	5	0.4	0.8	2	0.4	20	TO-220F	Switching regulator
25	-5	-40	2SA1679	-60	-7	70-	-2	-2.5	-0.3	-2.5	-0.13	50	ITO-220	Switching power
25	5	50	2SC2562	60	5	70-240	1	1	0.4	3	0.15	120	TO-220	High current switching
25	-5	-50	2SA1012	-60	-5	70-240	-1	-1	-0.4	-3	-0.15	60	TO-220	High current switching
25	-5	-50	2SB1134	-60	-6	70-280	-2	-1	-0.4	-3	-0.3	30	TO-220F	High current switching
25	5	60	2SC3691	100	7	100-400	2	1	0.5	4	0.2	150	TO-220Fa	Switching applications
25	5	60	2SC4596	100	5	60-320	2	1	0.5	4	0.2	120	TO-220Fa	High speed switching
25	-5	-60	2SA1757	-100	-5	160-320	-2	-1	-0.5	-4	-0.2	80	TO-220Fa	Switching power
25	5	80	2SC3540	100	7	70-240	1	1	0.4	3	0.15	120	TO-220Fa	High current switching
25	5	80	2SC4980	100	7	70-	2	2.5	0.3	2.5	0.13	50	ITO-220	Power switching
25	-5	-80	2SA1388	-100	-5	70-240	-1	-1	-0.4	-3	-0.15	60	TO-220Fa	High current switching
25	-5	-80	2SA1878	-80	-7	70-	-2	-2.5	-0.3	-2.5	-0.25	50	ITO-220	Switching power
25	5	200	2SC4663	250	7	10-25	2	2.5	1	2.5	0.5	13	ITO-220	Power switching
25	6	400	2SD1409	600	5	600-	2	2	2	4	0.04		TO-220Fa	High voltage switching
25	-7	-35	2SA1643	-50	-7	50-	-2	-5	-0.5	-5	-0.3	75	TO-220F	Power switching
25	7	40	2SC4148	60	7	70-	2	3.5	0.3	3.5	0.2	50	ITO-220	Power switching
25	-7	-40	2SA1598	-60	-7	70-	-2	-3.5	-0.3	-3.5	-0.2	50	ITO-220	Switching power
25	-7	-60	2SA1470	-80	-5	70-280	-2	-1	-0.4	-3.5	-0.175	100	TO-220F	High speed switching
25	7	80	2SC4981	100	7	70-	2	3.5	0.3	3.5	0.2	50	ITO-220	Power switching
25	-7	-80	2SA1879	-80	-7	70-	-2	-3.5	-0.3	-3.5	-0.35	50	ITO-220	Switching power
25	7	100	2SD1415A	120	6	2K-	3	3	1.5	3	0.006		TO-220F	High Power switching
25	-7	-100	2SA1651	-150	-7	100-400	-2	-1.5	-0.5	-6	-0.3	150	TO-220Fa	High current switching
25	10	40	2SC4149	60	7	70-	2	5	0.3	5	0.25	50	ITO-220	Power switching
25	-10	-40	2SA1599	-60	-7	70-	-2	-5	-0.3	-5	-0.25	50	ITO-220	Switching power
25	-10	-50	2SA1887	-80	-7	120-400	-1	-1	-0.4	-5	-0.25	45	TO-220F	High current switching
25	10	80	2SC4982	100	7	70-	2	5	0.3	5	0.25	50	ITO-220	Power switching
25	-10	-80	2SA1880	-80	-7	70-	-2	-5	-0.3	-5	-0.5	50	ITO-220	Switching power
25	12	40	2SC4150	60	7	70-	2	6	0.3	6	0.3	50	ITO-220	Power switching
30	1	300	2SC2022	300	6	30-	4	0.2	1	0.5	0.1	10	TO-220	Switching regulator
30	1	500	2SD546	800	6	40-200	10	0.02	1	0.5	0.1	7	TO-66	Switching regulator
30	1	800	2SC4004	900	7	6-	5	0.05	1.5	0.2	0.04	4	TO-220Fa	High speed switching
30	-1.5	-100	2SB1087	-100	-5	2K-	-5	-2	-1.5	-2	-0.002		TO-220	Low speed switching
30	2	800	2SC4231	1200	7	8-	5	1	1	1	0.2	8	ITO-220	Power switching
30	3	40	3DD303A	60	6	40-250	5	2	1.5	3	0.3		TO-3	Switching regulator
30	3	60	3DD303B	100	6	50-200	5	0.5	0.6	0.5	0.05		TO-3	Switching regulator
30	-3	-60	2SA1288	-80	-5	70-280	-2	-0.5	-0.4	-1.5	-0.075	100	TO-220	Switching regulator
30	-3	-80	2SB867	-130	-7	60-260	-2	-0.5	-0.5	-2	-0.1	30	TO-220	Power switching
30	-3	-80	2SB943	-130	-7	60-260	-2	-0.5	-0.5	-2	-0.1	30	TO-220Fa	Power switching
30	3	100	3DD303C	250	6	30-120	5	2	1.5	3	0.3		TO-3	Switching regulator
30	3	400	2SC2612	500	7	15-	5	1.5	1	1.5	0.3		TO-220	Switching applications
30	3	400	2SC4533	500	7	8-40	2	1.2	1	1.5	0.3	10	TO-220Fa	High speed switching
30	3	400	2SD1571	800	5	10-	5	0.5	1	0.5	0.05	4	TO-220Fa	High voltage switching
30	3	550	2SC4517	900	7	10-30	4	1	0.5	1	0.2	6	TO-220F	Switching regulator
30	3	550	2SC4517A	1000	7	10-30	4	1	0.5	1	0.2	6	TO-220F	Switching regulator
30	3	600	2SC4804	900	7	10-	5	0.8	0.6	0.8	0.16		ITO-220	Switching regulator
30	3	800	2SC3559	900	7	10-	5	0.8		0.16	0.6		TO-220Fa	Switching applications

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
30	3	800	2SC3752	1100	7	10-40	5	0.2	2	1.5	0.3	15	TO-220F	Switching regulator
30	-4	-60	2SA489	-70	-5	40-240	-5	-0.5	-1	-3	-0.3	>3	TO-220	Switching regulator driver
30	4	70	2SC789	70	5	40-240	5	0.5	1	2	0.2	>3	TO-220	Switching
30	-4	-70	2SA1355	-70	-5	70-280	-2	-1	-0.5	-2	-0.2	40	TO-220	High speed switching
30	-4	-80	2SB676	-100	-5	2K-	-2	-1	-1.5	-3	-0.006		TO-220	Switching application
30	4	550	2SC4940	1200	7	10-	5	2	1	2	0.4	10	ITO-220	Power switching
30	5	50	3DD301B	80	6	30-250	5	3	2	3	0.3		TO-3	Switching regulator
30	-5	-50	2SB824	-60	-6	70-280	-2	-1	-0.4	-3	-0.3	30	TO-220	Switching application
30	5	60	2SC2516	150	12	40-200	5	3	0.6	3	0.3		TO-220	Switching regulator
30	5	60	2SC3253	80	5	70-280	2	1	0.4	2.5	0.125	100	TO-220	Switching regulator driver
30	-5	-60	2SA1069	-80	-12	40-200	-5	-3	-0.6	-3	-0.3		TO-220	Switching regulator
30	-5	-60	2SA1279	-60	-7	70-240	-1	-1	-0.4	-3	-0.15	60	TO-220F	High current switching
30	-5	-60	2SA1289	-80	-5	70-280	-2	-1	-0.4	-2.5	-0.125	100	TO-220	Switching regulator
30	5	80	2SC3258	100	7	70-240	1	1	0.4	3	0.15	120	TO-220	High current switching
30	5	80	2SD1236L	90	6	70-280	2	1	0.4	3	0.3	20	TO-220	Large current switching
30	-5	-80	2SA1069A	-80	-12	40-200	-5	-3	-0.6	-3	-0.3		TO-220	Switching regulator
30	-5	-80	2SA1293	-100	-7	70-280	-1	-1	-0.4	-3	-0.15	60	TO-220	High speed switching
30	5	100	2SC2517	150	12	40-200	5	2	0.6	3	0.3		TO-220	Switching regulator
30	5	100	2SD1308	100	7	2K-	2	2	1.5	2	0.002		TO-220	Power switching
30	5	100	2SD1565	100	7	2K-	2	2	1.5	2	0.002		TO-220	Power switching
30	5	100	2SD1633	100	7	1.5K-	3	3	1.5	3	0.003		TO-220Fa	Power switching
30	5	100	3DD301C	200	6	30-250	5	3	2	3	0.3		TO-3	Switching regulator
30	-5	-100	2SA1308	-100	-7	70-240	-1	-1	-0.4	-3	-0.15	60	TO-220F	High speed switching
30	-5	-100	2SB601	-100	-7	2K-	-2	-3	-1.5	-3	-0.003		TO-220	Low speed power switching
30	-5	-100	2SB1194	-100	-7	1.5K-	-3	-3	-1.5	-3	-0.003		TO-220Fa	Power switching
30	-5	-100	2SB1381	-100	-7	1.5K-	-3	-2.5	-3	-5	-0.02		TO-220F	High current switching
30	5	150	3DD301D	300	6	30-120	5	3	1.5	3	0.3		TO-3	Switching regulator
30	5	200	2SC5271	300	7	10-30	2	2.5	1	2.5	0.5	10	TO-220F	Switching regulator
30	5	400	2SC3310	500	7	12-	5	3	1	5	1		TO-220Fa	Switching regulator
30	5	400	2SC3822	450	6	10-30	5	2	0.8	2	0.4	100	TO-220Fa	Power switching
30	5	400	2SC4073	500	10	10-30	4	2	0.5	2	0.4	10	TO-220F	Switching regulator
30	5	400	2SC4418	500	10	10-30	4	1.5	0.5	1.5	0.3	20	TO-220F	Switching regulator
30	5	400	2SC4662	500	10	10-30	4	1.5	0.5	1.5	0.3	20	TO-220F	Switching regulator
30	5	400	2SC5130	600	10	10-30	4	1.5	0.5	1.5	0.3	20	TO-220F	Switching regulator
30	5	450	2SC4054	600	7	10-	5	2.5	1	2.5	0.5	20	ITO-220	Power switching
30	5	450	2SC5241	600	7	10-	5	2.5	1	2.5	0.5	20	TO-220F	Switching regulator
30	5	500	2SC3750	800	7	15-50	5	0.6	1	3	0.6	18	TO-220F	Switching regulator
30	6	500	2SC4907	600	10	10-30	4	2	0.5	2	0.4	8	TO-220F	Switching regulator
30	7	20	2SD1444	40	5	60-260	2	2	0.6	5	0.16	150	TO-220Fa	Low voltage switching
30	-7	-20	2SB953	-40	-5	90-260	-2	-2	-0.6	-5	-0.16	150	TO-220Fa	Low-voltage switching
30	7	40	2SD1444A	50	5	60-260	2	2	0.6	5	0.16	150	TO-220Fa	Low voltage switching
30	-7	-40	2SB953A	-50	-5	90-260	-2	-2	-0.6	-5	-0.16	150	TO-220Fa	Low-voltage switching
30	-7	-50	2SB1019	-70	-5	70-240	-1	-1	-0.4	-4	-0.4	10	TO-220Fa	High current switching
30	-7	-50	2SB1135	-60	-6	70-280	-2	-1	-0.4	-4	-0.4	10	TO-220F	High current switching
30	-7	-60	2SB1022	-60	-5	2K-	-3	-3	2.0	-7	-0.014		TO-220Fa	Large power switching
30	-7	-60	2SB1097	-80	-5	40-200	-1	-3	-0.5	-5	-0.5		TO-220Fa	Low speed switching
30	7	80	2SD1411	100	5	70-240	1	1	0.5	4	0.4	10	TO-220Fa	High current switching
30	-7	-80	2SB1018	-100	-5	70-240	-1	-1	-0.5	-4	-0.4	10	TO-220F	High current switching
30	-7	-80	2SB1021	-80	-5	2K-	-3	-3	2.0	-7	-0.014		TO-220Fa	Large power switching
30	-7	-80	2SB1455	-90	-6	70-280	-2	-1	-0.5	-4	-0.4	20	TO-220F	High current switching
30	7	100	2SD1415	100	5	2K-	3	3	1.5	7	0.014		TO-220Fa	High Power switching
30	-7	-100	2SB1020	-100	-5	2K-	-3	-3	2.0	-7	-0.014		TO-220Fa	Large power switching
30	7	400	2SC3571	500	7	20-80	5	1	1	3	0.6		TO-220Fa	Switching regulator
30	7	400	2SC3890	500	10	10-30	4	3	0.5	3	0.6	10	TO-220F	Switching regulator

Power Transistors For Switch-mode Regulator

P _C (W)	I _C (A)	V _{ceo} (V)	Model	V _{cbo} (V)	V _{ebo} (V)	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
							V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
30	7	400	2SC4130	500	10	10-30	4	3	0.5	3	0.6	15	TO-220F	Switching regulator
30	7	400	2SC4161	500	7	15-50	5	0.8	0.8	4	0.8	20	TO-220F	Switching regulator
30	8	30	2SD1235	60	6	70-280	2	1	0.4	3	0.15	120	TO-220	Large current switching
30	-8	-30	2SB919	-60	-6	70-280	-2	-1	-0.5	-3	-0.15	120	TO-220	High current switching
30	8	200	2SC4664	250	7	10-25	2	4	1	4	0.8	13	ITO-220	Power switching
30	-8	-200	2SA1250	-200	-7	40-200	-1	-2	-1.5	-5	-0.5		TO-66	Switching application
30	8	450	2SC5439	1000	9	14-34	5	1	1	3.2	0.64		TO-220F	Switching regulator
30	10	60	2SC3748	80	5	70-280	2	1	0.4	5	0.25	100	TO-220F	High speed switching
30	-10	-60	2SA1443	-100	-7	100-400	-2	-2	-0.5	-8	-0.4	80	TO-220Fa	High speed power switching
30	-10	-60	2SA1471	-80	-5	70-280	-2	-1	-0.4	-5	-0.25	100	TO-220F	Switching regulator, driver
30	10	100	2SC3568	150	7	40-200	5	3	0.6	5	0.5		TO-220Fa	Switching regulator
30	10	100	2SC4336	100	7	100-400	2	2	0.5	8	0.4	150	TO-220Fa	Power switching
30	10	100	2SD1591	150	7	1K-	2	10	1.5	10	0.025		TO-220Fa	Low speed switching
30	-10	-100	2SA1396	-100	-7	40-200	-5	-3	-0.6	-5	-0.5		TO-220Fa	Switching regulator
30	10	200	2SC3627	250	7	20-80	5	5	1	5	0.5		TO-220Fa	Switching regulator
30	-12	-40	2SA1600	-60	-7	70-	-2	-6	-0.3	-6	-0.3	50	ITO-220	Switching power
30	-12	-50	2SA1451	-60	-6	70-240	-1	-1	-0.4	-6	-0.3	70	TO-220Fa	High current switching
30	-12	-50	2SB1136	-60	-6	70-280	-2	-1	-0.4	-6	-0.6	10	TO-220F	High current switching
30	12	60	2SC4595	100	5	60-320	2	2	0.3	6	0.3	120	TO-220Fa	Power switching
30	-12	-60	2SA1758	-100	-5	60-320	-2	-2	-0.5	-8	-0.4	90	TO-220Fa	Switching power
30	12	80	2SC3710	80	6	70-240	1	1	0.4	6	0.3	80	TO-220Fa	High speed switching
30	-12	-80	2SA1452	-80	-6	70-240	-1	-1	-0.4	-6	-0.3	50	TO-220Fa	High current switching
30	-12	-80	2SA1771	-80	-14	100-320	-1	-1	-0.4	-6	-0.3	50	TO-220F	High current switching
30	15	40	2SC4151	60	7	70-	2	7.5	0.3	7.5	0.4	50	ITO-220	Power switching
30	15	60	2SC4552	100	7	100-400	2	3	0.5	12	0.6	120	TO-220F	High speed switching
32	5	450	BUT11AX	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-220F	Switching regulator
33	6	400	BUT18F	850	9	10-35	5	1	1.5	4	0.8		TO-220Fa	Switching regulator
33	6	450	BUT18AF	1000	9	10-35	5	1	1.5	4	0.8		TO-220Fa	Switching regulator
35	-3	-60	2SB1605	-60	-5	70-250	-4	-1	-1.2	-3	-0.375	30	TO-220F	Low-voltage switching
35	-3	-80	2SB1605A	-80	-5	70-250	-4	-1	-1.2	-3	-0.375	30	TO-220F	Low-voltage switching
35	3	600	2SC5249	600	7	20-40	4	1	0.5	1	0.2	6	TO-220F	Switching regulator
35	3	800	2SC4304	900	7	10-30	4	0.7	0.5	0.7	0.14	15	TO-220F	Switching regulator
35	3	800	2SC4908	900	7	10-30	4	0.7	0.5	0.7	0.14	6	TO-220F	Switching regulator
35	-4	-80	2SB868	-130	-7	60-260	-2	-1	-0.5	-3	-0.15	30	TO-220	Power switching
35	-4	-80	2SB944	-130	-7	90-260	-2	-1	-0.5	-3	-0.15	30	TO-220Fa	Power switching
35	-5	-100	2SA1644	-150	-7	100-400	-2	-1	-0.5	-4	-0.2		TO-220	High current switching
35	5	400	2SC4026	500	7	15-	5	0.1	1	2	0.4	5	TO-220Fa	High speed switching
35	5	400	2SC4833	500	7	10-25	2	2.5	1	2.5	0.5	13	ITO-220	Power switching
35	5	550	2SC4518	900	7	10-25	4	1.8	0.5	1.8	0.36	6	TO-220F	Switching regulator
35	5	550	2SC4518A	1000	7	10-25	4	1.8	0.5	1.8	0.36	6	TO-220F	Switching regulator
35	7	60	2SC3254	80	5	70-280	2	1	0.4	3.5	0.175	100	TO-220	Switching regulator driver
35	-7	-60	2SA1290	-80	-5	70-280	-2	-1	-0.4	-3.5	-0.175	100	TO-220	Switching regulator
35	-7	-100	2SA1645	-150	-7	100-400	-2	-1.5	-0.5	-6	-0.3	150	TO-220	High current switching
35	-10	-20	2SB947	-40	-5	90-260	-2	-2	-0.6	-7	-0.23	150	TO-220Fa	Low-voltage switching
35	-10	-40	2SB947A	-50	-5	90-260	-2	-2	-0.6	-7	-0.23	150	TO-220Fa	Low-voltage switching
35	12	30	2SD1212	60	6	70-280	2	1	0.4	5	0.25	120	TO-220	High speed switching
35	-12	-30	2SB903	-60	-6	70-280	-2	-1	-0.5	-5	-0.25	120	TO-220	Switching application
40	1.5	300	MJE13002	600	9	8-40	2	0.5	3	1.5	0.5	>4	TO-126	Regulator/Inverter/Converter
40	1.5	400	MJE13003	700	9	8-40	2	0.5	3	1.5	0.5	>4	TO-126	Regulator/Inverter/Converter
40	1.5	800	2SC3149	900	7	10-40	5	0.1	2	0.75	0.15	15	TO-220	Switching regulator
40	1.5	800	2SC3456	1100	7	10-40	5	0.1	2	0.75	0.15	15	TO-220	Switching regulator
40	2	300	2SC2023	300	6	30-	4	0.5	1	1	0.2	10	TO-220	Switching regulator
40	3	800	2SC2979	900	7	15-	5	0.3	1	0.75	0.15		TO-220	Switching applications
40	3	800	2SC3148	900	7	10-	5	0.8	0.6	0.8	0.16		TO-220	Switching regulator

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
40	3	800	2SC3549	900	10	10-	5	1	1	1	0.2		TO-220	Switching regulator
40	3	800	2SC3866	900	10	10-	5	1	1	1	0.2		TO-220Fa	Switching regulator
40	3	800	2SC3979	900	7	8-	5	0.1	1.5	0.8	0.16	10	TO-220Fa	Switching applications
40	-4	-50	2SB566	-70	-5	60-200	-4	-1	-1	-2	-0.2	15	TO-220	Power switching
40	-4	-60	2SB566A	-70	-5	60-200	-4	-1	-1	-2	-0.2	15	TO-220	Power switching
40	4	80	2SC3557	80	5	150-	1	0.2	1.5	3	0.3		TO-220	Switching applications
40	4	150	2SC3231	200	7	30-150	5	1	1	4	0.4	8	TO-220	Switching regulator
40	4	400	2SC4105	500	7	15-50	5	0.4	0.8	2	0.4	20	TO-220	Switching regulator
40	5	80	2SD1270	130	7	60-260	2	2	0.5	4	0.2	30	TO-220Fa	Power switching
40	-5	-80	2SB869	-130	-7	60-260	-2	-2	-0.5	-4	-0.2	30	TO-220	Power switching
40	-5	-80	2SB945	-130	-7	90-260	-2	-2	-0.5	-4	-0.2	30	TO-220Fa	Power switching
40	-5	-80	2SB1606	-130	-7	90-260	-2	-2	-0.5	-4	-0.2	30	TO-220F	Power switching
40	5	200	2SC2767	250	7	20-80	5	1	0.2	2	0.8		TO-220	Switching regulator
40	5	400	2SC2440	450	7	15-	5	2	0.8	2	0.4		TO-220	Switching regulator
40	5	400	2SC2535	500	6	10-	5	3	1	3	0.6		TO-220	Switching regulator
40	5	400	2SC2542	450	7	10-	5	2	1.2	2	0.4		TO-220	Switching regulator
40	5	400	2SC2553	500	7	12-	5	3	1	5	1		TO-220	Switching regulator
40	5	400	2SC2613	500	7	15-	5	2.5	1	2.5	0.5		TO-220	Switching applications
40	5	400	2SC2816	500	7	15-	5	2.5	1	2.5	0.5		TO-220	Switching applications
40	5	400	2SC3317	500	7	10-	5	2	1	2	0.4		TO-220	Switching regulator
40	5	400	2SC3723	450	10	10-	5	2	0.8	2	0.4		TO-220	Switching regulator
40	5	400	2SC3962	500	7	15-50	5	0.5	0.5	2	0.4		TO-220	Switching regulator
40	5	400	2SC4205	400	7	16-50	5	3	1	5	1	15	TO-220	Switching applications
40	5	400	2SC4273	500	10	25-	5	0.5	0.8	2	0.4		TO-220	Switching regulator
40	5	400	2SC4507	500	7	25-65	5	0.5	0.8	2	0.4		TO-220F	Switching regulator
40	5	400	BUT11F	850	9	10-35	5	0.5	1.5	3	0.6		TO-220Fa	Switching regulator
40	5	450	BUT11AF	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-220Fa	Switching regulator
40	5	500	2SC2832	800	8	15-	5	0.1	1	3	0.6	3	TO-220	High speed switching
40	5	500	2SC2832A	900	8	15-	5	0.1	1	3	0.6	3	TO-220	High speed switching
40	5	500	2SC3795	800	8	15-	5	0.1	1	3	0.6	8	TO-220Fa	Switching applications
40	5	500	2SC3795A	900	8	15-	5	0.1	1	3	0.6	8	TO-220Fa	Switching applications
40	5	500	2SC3972	800	8	15-	5	0.1	1	2	0.4	20	TO-220Fa	Switching applications
40	5	500	2SC3972A	900	8	15-	5	0.1	1	2	0.4	20	TO-220Fa	Switching applications
40	6	80	2SC1445	100	6	30-	4	1	1.2	6	0.6	10	TO-66	Switching and wide-band amplifier
40	-6	-120	2SB727K	-120	-7	1K-	-3	-3	-3	-6	-0.06		TO-220	Power switching
40	6	200	2SC2768	250	7	20-	5	1	0.5	2	0.8		TO-220	Switching regulator
40	6	500	2SC3047	850	10	15-	5	0.5	0.5	2	0.4		TO-220	Switching regulator
40	6	550	2SC5382	1200	9	10-	5	3	1	3	0.6		TO-220F	High speed switching
40	-7	-30	2SA1129	-30	-7	40-200	-1	-3	-0.3	-3	-0.1		TO-220	Mid-speed switching
40	-7	-30	2SA1640	-30	-5	100-300	-2	-0.2	-0.4	-3	-0.1	>20	TO-220F	Switching regulator
40	-7	-50	2SB553	-70	-5	70-240	-1	-1	-0.4	-4	-0.4	10	TO-220	High current switching
40	-7	-50	2SB825	-60	-6	70-280	-2	-1	-0.4	-4	-0.4	10	TO-220	High current switching
40	-7	-60	2SB707	-80	-7	40-200	-1	-3	-0.5	-5	-0.5		TO-220	Low speed switching
40	7	80	2SD1237L	90	6	70-280	2	1	0.4	4	0.4	20	TO-220	Large current switching
40	7	80	2SD1271	130	7	60-260	2	3	0.5	5	0.25	30	TO-220/Fa	Power switching
40	-7	-80	2SB708	-80	-7	40-200	-1	-3	-0.5	-5	-0.5		TO-220	Low speed switching
40	-7	-80	2SB753	-100	-5	70-240	-1	-1	-0.5	-4	-0.4	10	TO-220	High current switching
40	-7	-80	2SB870	-130	-7	60-260	-2	-3	-0.5	-5	-0.25	30	TO-220	Power switching
40	-7	-80	2SB946	-130	-7	90-260	-2	-3	-0.5	-5	-0.25	30	TO-220Fa	Power switching
40	-7	-80	2SB1607	-130	-7	90-260	-2	-3	-0.5	-5	-0.25	30	TO-220F	Power switching
40	7	100	2SC2334	150	7	40-200	5	3	0.6	5	0.5		TO-220	Switching regulator
40	7	100	KSC2334	150	7	40-240	5	3	0.6	5	0.5		TO-220	Switching regulator
40	7	100	2SD1271A	150	7	60-260	2	3	0.5	5	0.25	30	TO-220/Fa	Power switching
40	7	100	2SD1594	150	7	40-240	5	3	0.6	5	0.5		TO-220Fa	High speed switching

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
40	-7	-100	2SA1010	-100	-7	40-200	-5	-3	-0.6	-5	-0.5		TO-220	Switching regulator
40	7	400	2SC2335	500	7	20-80	5	1	1	3	0.6		TO-220	Power switching
40	7	400	2SC3170	500	7	15-	5	0.1	1	3	0.6	8	TO-220Fa	High speed switching
40	7	400	2SC3870	500	7	15-	5	0.1	1	3	0.6	30	TO-220Fa	High speed switching
40	7	400	2SC4242	450	8	10-	5	4	0.8	4	0.8	20	TO-220	Switching regulator
40	7	400	2SC4559	500	7	8-	5	3	1	3	0.6	5.5	TO-220Fa	High speed switching
40	8	50	2SD1158	80	10	250-	5	1	0.5	2	0.1		TO-220	Switching regulator
40	10	20	2SD1445	40	5	90-260	2	3	0.6	10	0.33	120	TO-220Fa	Low voltage switching
40	-10	-20	2SB948	-40	-5	90-260	-2	-3	-0.6	-10	-0.33	100	TO-220Fa	Low-voltage switching
40	-10	-20	2SB1604	-40	-5	90-260	-2	-3	-0.6	-10	-0.33	100	TO-220F	Low-voltage switching
40	10	40	2SD1445A	50	5	90-260	2	3	0.6	10	0.33	120	TO-220Fa	Low voltage switching
40	-10	-40	2SB948A	-50	-5	90-260	-2	-3	-0.6	-10	-0.33	100	TO-220Fa	Low-voltage switching
40	-10	-40	2SB1604A	-50	-5	90-260	-2	-3	-0.6	-10	-0.33	100	TO-220F	Low-voltage switching
40	10	60	2SC3255	80	5	70-280	2	1	0.4	5	0.25	100	TO-220	High current switching
40	-10	-60	2SA1291	-80	-5	70-280	-2	-1	-0.4	-5	-0.25	100	TO-220	High speed switching
40	10	100	2SC4350	100	7	2K-	2	5	1.5	5	0.005		TO-220	High speed switching
40	-10	-100	2SA1646	-150	-7	100-400	-2	-2	-0.5	-8	-0.4	150	TO-220	High current switching
40	10	200	2SC3257	250	7	20-80	5	5	1	5	0.5		TO-220	Switching regulator
40	10	400	2SC4274	500	10	25-	5	1	0.8	4	0.8		TO-220	Switching regulator
40	10	400	2SC4508	500	7	25-65	5	1	0.8	4	0.8		TO-220F	Switching regulator
40	12	50	2SC3345	60	6	70-240	1	1	0.4	6	0.3	90	TO-220	High current switching
40	-12	-50	2SA1328	-60	-6	70-240	-1	-1	-0.4	-6	-0.3	70	TO-220	High current switching
40	-12	-50	2SB826	-60	-6	70-280	-2	-1	-0.5	-6	-0.3	10	TO-220	High current switching
40	12	80	2SC3346	80	6	70-240	1	1	0.4	6	0.3	80	TO-220	High current switching
40	-12	-80	2SA1329	-80	-6	70-240	-1	-1	-0.4	-6	-0.3	50	TO-220	High current switching
40	12	400	2SC4163	500	7	15-50	5	1.6	0.8	8	1.6	20	TO-220F	Switching regulator
41	5	400	BUW11F	850	9	10-35	5	0.5	1.5	3	0.6		TO-3PFa	Switching regulator
41	5	450	BUW11AF	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-3PFa	Switching regulator
45	3	800	2SC4234	1200	7	8-	5	1.5	1	1.5	0.3	8	ITO-220	Power switching
45	7	500	2SC3973	800	8	15-	5	0.1	1	4	0.8	20	TO-220Fa	Switching applications
45	7	500	2SC3973A	900	8	15-	5	0.1	1	4	0.8	20	TO-220Fa	Switching applications
45	7	500	2SC3973B	1000	8	15-	5	0.1	1	4	0.8		TO-220Fa	Switching applications
45	8	60	2SD1277	60	7	2K-	3	4	1.5	4	0.008	>20	TO-220Fa	Medium speed power switching
45	8	80	2SD1277A	80	7	2K-	3	4	1.5	4	0.008	>20	TO-220Fa	Medium speed power switching
45	8	400	2SC4834	500	7	10-25	2	4	1	4	0.8	13	ITO-220	Power switching
45	8	450	2SC4056	600	7	10-	5	4	1	4	0.8	20	ITO-220	Power switching
45	-15	-40	2SA1601	-60	-7	70-	-2	-7.5	-0.3	-7.5	-0.4	50	ITO-220	Switching power
50	1.5	300	2SC792	400	5	30-200	10	0.3	5	1.5	0.3	10	TO-3	Power switching
50	1.5	600	2SD1492	1500	6	10-30	5	0.3	5	1.2	0.3		TO-3PN	High voltage power switching
50	3	550	2SC5239	900	7	10-30	4	1	0.5	1	0.2	6	TO-220	Switching regulator
50	3	800	2SC3150	900	7	10-40	5	0.2	2	1.5	0.3	15	TO-220	Switching regulator
50	3	800	2SC3457	1100	7	10-40	5	0.2	2	1.5	0.3	15	TO-220	Switching regulator
50	3	800	2SC3458	1100	7	10-40	5	0.2	2	1.5	0.3	15	TO-3PN	Switching regulator
50	3	800	KSC5027	1100	7	10-40	5	0.2	2	1.5	0.3	15	TO-220	High speed switching
50	4.5	800	2SC4427	1100	7	10-40	5	0.3	2	2	0.4	15	TO-3PML	Switching regulator
50	5	100	2SC2908	200	12	60-320	5	0.3	1	3	0.3		TO-3PN	Switching circuits
50	5	450	2SC4053	600	7	10-	5	2.5	1	2.5	0.5	20	TO-220	High speed switching
50	5	500	2SC3447	800	7	15-50	5	0.6	1	3	0.6	18	TO-220	Switching regulator
50	5	500	KSC5021	800	7	15-50	5	0.6	1	3	0.6	18	TO-220	High speed switching
50	5	600	2SD1496	1500	6	10-30	5	0.3	5	4.5	1.2		TO-3PN	High voltage power switching
50	5	600	2SD1545	1500	5	8-	5	1	5	4	0.8	3	TO-3PHIS	Switching regulator
50	5	800	2SC2027	1500	5	8-36	5	1	5	4	1.3		TO-3	Power switching
50	6	80	2SC1027	250	5	10-	2	5	1	5	0.5		TO-3	Switching regulator
50	6	400	2SC2502	500	7	15-	2	3	0.7	3	0.3	>10	TO-220	Switching in inductive circuit

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
50	6	400	2SC3163	500	7	15-	2	3	1	3	0.3	20	TO-220	High speed switching
50	6	500	2SC3830	600	10	10-30	4	2	0.5	2	0.4	8	TO-220	Switching regulator
50	6	600	2SC3795B	1300	8	15-	5	0.1	1	3	0.6	8	TO-220F	Switching applications
50	6	600	2SD1497	1500	7	10-30	5	0.3	5	5	1		TO-3PN	High voltage power switching
50	6	600	2SD1546	1500	5	8-	5	1	5	5	1	3	TO-3PHIS	Switching regulator
50	7	80	2SC2438	150	7	30-	1	4	0.5	4	0.4		TO-220	Switching regulator
50	7	400	2SC2810	500	7	10-	4	3	0.5	3	0.6	18	TO-220	Power switching
50	7	400	2SC3039	500	7	15-50	5	0.8	1	4	0.8	20	TO-220	Switching regulator
50	7	400	2SC3832	500	10	10-30	4	3	0.5	3	0.6	10	TO-220	Switching regulator
50	7	400	2SC4106	500	7	15-50	5	0.8	0.8	4	0.8	20	TO-220	Switching regulator
50	7	600	2SC4916	1500	5	8-20	5	1	5	5	1	3	TO-3PHIS	High speed switching
50	7	600	2SC5339	1500	5	10-30	5	1	5	5	1.25	2.4	TO-3PHIS	High speed switching
50	7	600	2SD1547	1500	5	8-	5	1	5	6	1.2	3	TO-3PHIS	Switching regulator
50	8	100	2SD1634	100	7	1.5K-	3	5	1.5	5	0.005		TO-220Fa	Power switching
50	-8	-120	2SB1193	-120	-7	1K-	-3	-4	-1.5	-4	-0.008		TO-220Fa	Medium speed switching
50	8	400	2SC2898	500	7	15-	5	4	1	4	0.8		TO-220	Switching applications
50	8	600	2SC3886	1400	5	8-	5	1	5	6	1.5	3	TO-3PHIS	High speed switching regulator
50	8	600	2SC3886A	1500	5	8-	5	1	5	6	1.5	3	TO-3PHIS	High speed switching regulator
50	8	600	2SC5148	1500	5	8-	5	1	5	5	1.3	2	TO-3PHIS	High speed switching
50	8	600	2SC5149	1500	5	8-	5	1	5	5	1.3	2	TO-3PHIS	High speed switching
50	8	600	2SC5280	1500	5	10-35	5	1	5	6	1.5	2	TO-3PHIS	High speed switching
50	8	600	2SC5386	1500	5	15-35	5	1	3	6	1.5	1.7	TO-3PHIS	High speed switching
50	9	600	2SC5404	1500	5	10-40	5	1	3	7	1.75	2.5	TO-3PHIS	High speed switching
50	10	600	2SC4542	1500	5	8-	5	1	5	7	1.7	3	TO-3PHIS	Switching regulator
50	10	600	2SC5129	1500	5	10-30	5	1	3	6	1.5	1.7	TO-3PHIS	High speed switching
50	10	600	2SD1279	1400	5	8-	5	2	5	8	2	3	TO-3	Switching regulator
50	10	600	2SD1548	1400	5	8-	5	2	5	8	2	3	TO-3PHIS	Switching regulator
50	10	700	2SC5143	1700	5	8-	5	1	3	6	1.5	2	TO-3PHIS	High speed switching
50	10	700	2SC5150	1700	5	10-28	5	1	3	6	1.5	2	TO-3PHIS	High speed switching
50	12	600	2SC5048	1500	5	10-30	5	1	3	8	2	1.7	TO-3PHIS	Switching regulator
50	15	400	BUW13F	850	9	10-35	5	1.5	1.5	10	2		TO-3PFa	Switching regulator
50	15	450	BUW13AF	1000	9	10-35	5	1.5	1.5	8	1.6		TO-3PFa	Switching regulator
55	12	400	2SC4423	500	7	15-50	5	1.6	0.8	8	1.6	20	TO-3PML	Switching regulator
55	15	500	2SC4460	800	7	15-50	5	1.2	1	6	1.2	18	TO-3PML	Switching regulator
55	15	700	BUV48CFI	1200	7	15-50	5	1	3	10	4		TO-3PML	Switching regulator
60	1.5	800	2SC3151	900	7	10-40	5	0.1	2	0.75	0.15	15	TO-3PN	Switching regulator
60	3	800	2SC4233	1200	7	8-	5	1.5	1	1.5	0.3	8	TO-220	Power switching
60	3	800	2SC4445	900	7	10-30	4	0.7	0.5	0.7	0.14	15	TO-3PML	Switching regulator
60	6	400	2SC3083	500	7	15-50	5	0.4	1	2	0.4	20	TO-3PN	Switching regulator
60	-7	-50	2SB754	-50	-5	70-240	-1	-1	-0.4	-4	-0.4	10	TO-3PI	High current switching
60	-7	-50	2SB827	-60	-6	70-280	-2	-1	-0.4	-4	-0.4	10	TO-3PN	High current switching
60	7	100	2SC1051	150	5	40-320	5	1	2	5	0.5	8	TO-3	Large power switching
60	7	400	2SC3158	500	7	20-80	5	1	1	3	0.6		TO-220F	Switching regulator
60	7	400	2SC4687	500	7	15-	5	0.1	1	3	0.6	30	TO-3PN	Switching regulator
60	8	450	2SC4055	600	7	10-	5	4	1	4	0.8	20	TO-220	High speed switching
60	8	800	2SC4429	1100	7	10-40	5	0.6	2	4	0.8	15	TO-3PML	Switching regulator
60	10	100	2SC3157	150	7	40-200	5	3	0.6	5	0.5		TO-220	Switching regulator
60	10	120	2SC2527	120	7	60-200	5	1	1.8	5	0.5	80	TO-220	Switching regulator
60	-10	-120	2SA1077	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-220	Switching regulator
60	10	400	2SC4107	500	7	15-50	5	1.2	0.8	6	1.2	20	TO-220	Switching regulator
60	-15	-60	2SA1513	-100	-6	100-400	-2	-3	-0.5	-12	-0.6	80	TO-3PML	High speed and power switching
60	16	400	2SC4424	500	7	15-50	5	2	0.8	10	2	20	TO-3PML	Switching regulator
60	20	30	2SD1213	60	6	70-280	2	1	0.4	8	0.4	120	TO-3PN	Large current switching
65	6	800	2SC4584	1200	7	8-	5	3	1	3	0.6	8	TO-3PML	Power switching

Power Transistors For Switch-mode Regulator

P _C (W)	I _C (A)	V _{ceo} (V)	Model	V _{cbo} (V)	V _{ebo} (V)	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
						V _{CE} (V)	I _C (A)		max	I _C (A)	I _B (A)			
65	6	800	2SC4941	1500	7	15-	5	1	0.5	3	0.6	8	TO-3PML	Power switching
65	10	450	2SC4581	600	7	10-	5	5	1	5	1	20	TO-3PML	Power switching
65	12	800	2SC4430	1100	7	10-40	5	0.8	2	6	1.2	15	TO-3PML	Switching regulator
65	14	100	BUV26A	200	5				1	10	1		TO-220	Switching regulator/Motor control
70	2	800	2SC4232	1200	7	8-	5	1	1	1	0.2	8	TO-247	Power switching
70	3	800	2SC3506	1000	7	6-	5	2	1.5	2	0.4	4	TO-3PFa	High speed switching
70	3	800	2SC4299	900	7	10-30	4	1	0.5	1	0.2	6	TO-3PML	Switching regulator
70	5	500	2SC3947	850	7	10-30	5	2.5	1	2.5	0.5	20	TO-3PML	Power switching
70	-10	-80	2SB1154	-130	-7	90-260	-2	-3	-1.5	-10	-1	30	TO-3PFa	Power switching
70	10	200	BUV28	400	7				1.5	6	0.6		TO-220	Switching regulator/Motor control
70	10	400	2SC3842	600	6	10-40	5	5	1	5	1	32	TO-3PML	Power switching
70	12	400	2SC4164	500	7	15-50	5	1.6	0.8	8	1.6	20	TO-220	Switching regulator
75	4	400	BUL6825	700	9	8-40	5	2	1	4	1	>4	TO-220	Switching regulator
75	4	300	MJE13004	600	9	8-40	5	2	1	4	1	>4	TO-220	Regulator/Inverter/Converter
75	4	400	MJE13005	700	9	8-40	5	2	1	4	1	>4	TO-220	Regulator/Inverter/Converter
75	5	800	2SC4300	900	7	10-30	4	2	0.5	2	0.4	6	TO-3PML	Switching regulator
75	12	400	2SC4297	500	10	10-30	4	7	0.5	7	1.4	10	TO-3PML	Switching regulator
75	15	450	2SC4582	600	7	10-	5	7.5	1	7.5	1.5	20	TO-3PML	Power switching
80	2	800	2SC2792	850	7	10-	5	0.5	1	0.5	0.05		TO-3PI	Switching applications
80	2	800	2SC3409	900	10	15-	4	0.5	5	1.5	0.3		TO-3PN	Switching regulator
80	2	900	MJE1320	1800	9	2.5-	5	2	2.5	2	1		TO-220	Inverter/driver/Motor control
80	2.5	750	MJE12007	1500	9	3-	5	1	2.5	2	1		TO-220	Inverter/driver/Motor control
80	3	800	2SC3152	900	7	10-40	5	0.2	2	1.5	0.3	15	TO-3PN	Switching regulator
80	3	800	2SC3678	900	7	10-30	4	1	0.5	1	0.2	6	TO-3PN	Switching regulator
80	3	800	2SC4235	1200	7	8-	5	1.5	1	1.5	0.3	8	TO-247	Power switching
80	5	450	2N6833	850	6	7.5-30	5	3	2.5	3	0.4	15-75	TO-220	Switching regulator
80	5	450	MJE16004	850	6	7-	5	5	2.5	3	0.3		TO-220	Regulator/Inverter/Converter
80	5	550	2SC5287	900	7	10-25	4	1.8	0.5	1.8	0.36	6	TO-3PN	Switching regulator
80	5	650	2SC3577	850	7	10-	5	0.01	1.5	3	0.6	6	TO-3PFa	High speed switching
80	5	800	2SC3214	1200	7	10-	5	1.5	1	2.5	0.5		TO-3	Switching regulator
80	5	800	2SC3322	900	7	15-	5	0.5	1	1.5	0.3		TO-3PI	High power switching
80	5	800	2SC3507	1000	7	6-	5	3	1.5	3	0.6	6	TO-3PFa	High speed switching
80	5	800	2SC3551	900	10	10-	5	2	1	2	0.4		TO-3PN	Switching regulator
80	5	800	2SC4538	900	10	10-	5	2	1	2	0.4		TO-3PML	Switching regulator
80	6	700	2SC3505	900	10	10-	5	2	0.5	2	0.4		TO-3PN	Switching regulator
80	6	800	2SC4303	1400	7	6-	4	2.5	1	2.5	0.5	4	TO-3PML	Switching regulator
80	7	400	2SC2305	400	8	15-50	5	0.8	1	4	0.8		TO-3PN	Switching regulator
80	7	500	2SC3089	800	7	15-50	5	0.6	1	3	0.6	18	TO-3PN	Switching regulator
80	7	800	2SC4301	900	7	10-30	4	3	0.5	3	0.6	6	TO-3PML	Switching regulator
80	7	800	2SC5002	1500	6	8-	5	1	5	5	1.2	4	TO-3PML	Switching regulator
80	7	800	2SC5003	1500	6	8-	5	1	5	5	1.2	4	TO-3PML	Switching regulator
80	-8	-120	2SB816	-150	-6	60-200	-5	-1	-2	-5	-0.5	15	TO-3PN	Large power switching
80	8	400	2SC1577	500	7	30-	4	3	0.5	5	1	7	TO-3	Switching regulator
80	8	400	2SC2555	500	7	15-	5	1	1	4	0.8		TO-3PI	Switching regulator
80	8	400	2SC2615	500	7	15-	5	4	1	4	0.8		TO-247	Switching applications
80	8	400	2SC3040	500	7	15-50	5	0.8	1	4	0.8	20	TO-3PN	Switching regulator
80	8	400	MJE13007	700	9	8-40	5	2	3	8	2	>4	TO-220	Regulator/Inverter/Converter
80	8	450	2SC4057	600	7	10-	5	4	1	4	0.8	20	TO-247	Power switching
80	10	230	2SC3220	230	7	15-	2	10	1	5	0.5	20	TO-247	Switching applications
80	10	350	2SD437	600	6	15-50	5	1	3	8	2.5		TO-3	Switching regulator
80	10	400	2SC2625	450	7	10-	5	4	1.2	4	0.8		TO-3PN	Switching regulator
80	10	400	2SC3159	500	7	15-80	5	1	1	6	1.2		TO-220F	Switching regulator
80	10	400	2SC3318	500	7	10-	5	5	1	5	1		TO-3PN	Switching regulator
80	10	400	2SC3365	500	10	12-	5	5	1	5	1		TO-3PN	Switching applications

Power Transistors For Switch-mode Regulator

P _C (W)	I _C (A)	V _{ceo} (V)	Model	V _{cbo} (V)	V _{ebo} (V)	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
						V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP			
80	10	400	2SC4138	500	10	10-30	4	6	0.5	6	1.2	10	TO-3PN	Switching regulator
80	10	400	2SC4275	500	10	25-	5	1	0.8	4	0.8		TO-3PN	Switching regulator
80	10	400	2SC4509	500	10	25-65	5	1	0.8	4	0.8		TO-3PML	Switching regulator
80	10	550	2SC4557	900	7	10-28	4	5	0.5	5	1	6	TO-3PML	Switching regulator
80	-12	-50	2SB828	-60	-6	70-280	-2	-1	-0.5	-6	-0.3	10	TO-3PN	High current switching
80	12	80	2SD1238L	90	6	70-280	2	1	0.4	6	0.6	20	TO-3PN	Large current switching
80	-15	-60	2SA1292	-80	-5	70-280	-2	-1	-0.4	-7.5	-0.375	100	TO-3PN	High speed switching
80	-15	-80	2SB1155	-130	-7	90-260	-2	-3	-1.5	-15	-1.5	25	TO-3PFa	Power switching
80	15	300	2SC2626	400	7	10-	5	6	1.2	6	1.2		TO-3PN	Switching regulator
80	15	400	2SC3320	500	7	10-	5	6	1	6	1.2		TO-3PN	Switching regulator
80	15	400	2SC3725	450	10	10-	5	6	0.8	6	1.2		TO-3PN	Power amplifier
80	15	400	2SC4276	500	10	25-	5	2	0.8	6	1.2		TO-3PN	Switching regulator
80	15	400	2SC4298	500	10	10-30	4	8	0.5	8	1.6	10	TO-3PML	Switching regulator
80	15	400	2SC4510	500	10	25-65	5	2	0.8	6	1.2		TO-3PML	Switching regulator
80	15	500	2SC3949	850	7	10-30	5	10	1	10	2	20	TO-3PML	Power switching
80	25	80	2SD1049	120	7	20-	5	25	1.5	25	2.5		TO-3PN	Switching regulator/Motor control
85	10	800	2SC4585	1200	7	8-	5	5	1	5	1	8	TO-3PML	Power switching
85	12	120	BUV27	240	7				1.5	8	0.8		TO-220	Switching regulator/Motor control
85	12	150	BUV27A	300	7				1.5	7	0.7		TO-220	Switching regulator/Motor control
85	14	90	BUV26	180	7				1.5	12	1.2		TO-220	Switching regulator/Motor control
90	10	400	2SC3277	500	7	15-50	5	1.2	1	6	1.2	20	TO-3PN	Switching regulator
90	-15	-50	2SB829	-60	-6	70-280	-2	-1	-0.5	-8	-0.4	20	TO-3PN	High current switching
100	2.5	200	2SC1195	200	5	30-150	5	1	1.5	2.5	0.5		TO-3	Power switching
100	5	300	2N6542	650	8	12-60	2	1.5	5	5	1	6-35	TO-3	Switching regulator
100	5	400	2N6543	850	8	12-60	2	1.5	5	5	1	6-35	TO-3	Switching regulator
100	5	400	BUT11	850	7	10-35	5	0.5	1.5	3	0.6		TO-220	Switching regulator
100	5	400	BUW11	850	9	10-35	5	0.5	1.5	3	0.6		TO-3PN	Switching regulator
100	5	450	BUT11A	1000	7	10-35	5	0.5	1.5	2.5	0.5		TO-220	Switching regulator
100	5	450	BUW11A	1000	9	10-35	5	0.5	1.5	2.5	0.5		TO-3PN	Switching regulator
100	5	800	2SC3679	900	7	10-30	4	2	0.5	2	0.4	6	TO-3PN	Switching regulator
100	6	800	2SC3153	900	7	10-40	5	0.4	2	3	0.6	15	TO-3PN	Switching regulator
100	6	800	2SC3460	1100	7	10-40	5	0.4	2	3	0.6	15	TO-3PN	Switching regulator
100	6	800	2SC4236	1200	7	8-	5	3	1	3	0.6	8	TO-247	Power switching
100	6	800	2SC4419	900	10	10-	5	2	1	2	0.4		TO-3PN	Switching regulator
100	7	500	2SC2834	800	8	15-	5	0.1	1	5	1	3.5	TO-3PN	High speed switching
100	7	500	2SC2834A	900	8	15-	5	0.1	1	5	1	3.5	TO-3PN	High speed switching
100	7	500	2SC3212	800	8	15-	5	0.1	1	5	1	3.5	TO-3PFa	High speed switching
100	7	500	2SC3212A	900	8	15-	5	0.1	1	5	1	3.5	TO-3PFa	High speed switching
100	8	300	2N6738	450	8	10-40	3	5	2	8	4	10-60	TO-220	Regulator/Inverter/Converter
100	8	350	2N6739	550	8	10-40	3	5	2	8	4	10-60	TO-220	Regulator/Inverter/Converter
100	8	400	2N6740	650	8	10-40	3	5	2	8	4	10-60	TO-220	Regulator/Inverter/Converter
100	8	400	BUT12	850	9	10-35	5	1	1.5	6	1.2		TO-220	Switching regulator
100	8	450	BUT12A	1000	9	10-35	5	1	1.5	5	1		TO-220	Switching regulator
100	10	200	2SD536	200	5	50-	5	5	1	5	1		TO-3	Switching regulator
100	10	400	2SC3164	500	7	15-	2	5	1	5	1	20	TO-247	High speed switching
100	10	400	2SC3210	500	7	15-	5	0.1	1	5	1	11	TO-3PFa	High speed switching
100	10	400	2SC3306	500	7	10-	5	5	1.5	5	0.5		TO-3PI	Switching applications
100	10	400	BUX80	800	10	30*	5	1.2	3	8	2.5		TO-3	Switching regulator
100	10	450	2SC4058	600	7	10-	5	5	1	5	1	20	TO-247	Power switching
100	10	450	2SC4157	600	8	15-	5	5	1	5	1		TO-3PI	Switching regulator
100	10	500	2SC3090	800	7	15-50	5	1.2	1	6	1.2	18	TO-3PN	Switching regulator
100	10	500	2SC3831	600	10	10-30	4	5	0.5	5	1	8	TO-3PN	Switching regulator
100	10	800	2SC5124	1500	6	8-	5	1	5	8	2	3	TO-3PML	Switching regulator
100	12	400	2SC2307	500	7	10-	4	7	0.5	7	1.4	18	TO-3PN	Power switching

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
100	12	400	2SC3042	500	7	15-50	5	1.6	1	8	1.6	20	TO-3PN	Switching regulator
100	12	400	2SC3873	500	7	15-	5	0.1	1	7	1.4	30	TO-3PFa	High speed switching
100	12	400	2SC4108	500	7	15-50	5	1.6	0.8	8	1.6	20	TO-3PN	Switching regulator
100	12	400	2SC5071	500	10	10-30	4	7	0.5	7	1.4	10	TO-3PN	Switching regulator
100	12	400	MJE13009	700	9	8-40	5	5	3	12	3	>4	TO-220	Regulator/Inverter/Converter
100	15	100	2SD1296	150	8	1K-	2	15	1.5	15	0.03		TO-3PN	Power switching
100	15	100	2SD1435	100	7	1K-	3	8	3	15	0.15		TO-3PN	High current switching
100	-15	-100	2SB1230	-110	-6	50-	-2	-1.5	-0.8	-6	-0.6		TO-3PN	High current switching
100	15	400	2SC2246	450	5	10-	5	6	1.2	6	1.2		TO-3	Power switching
100	15	400	2SC3336	500	10	12-	5	7.5	1	7.5	1.5		TO-3PI	Switching applications
100	15	500	2SC3451	800	7	15-50	5	1.2	1	6	1.2	18	TO-3PN	Switching regulator
100	-20	-80	2SB1156	-130	-7	60-260	-2	-3	-1.5	-20	-2	25	TO-3PFa	Power switching
100	25	100	2SD1297	150	8	1K-	2	15	1.5	15	0.03		TO-3PN	Power switching
110	6	400	BUT18	850	9	10-35	5	1	1.5	4	0.8		TO-220	Switching regulator
110	6	450	BUT18A	1000	9	10-35	5	1	1.5	4	0.8		TO-220	Switching regulator
118	10	400	MJH10012	600	8	100-2K	6	6	2.5	10	2		TO-3PN	Switching regulator/Motor control
120	7	800	2SC3680	900	7	10-30	4	3	0.5	3	0.6	6	TO-3PN	Switching regulator
120	8	650	2SC3466	1200	7	10-40	5	1	3	4	0.8	5	TO-3PN	Switching regulator
120	10	550	2SC3927	900	7	10-28	4	5	0.5	5	1	6	TO-3PN	Switching regulator
120	-12	-120	2SA1072	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-3	Switching regulator
120	-12	-120	2SA1075	-120	-7	60-200	-5	-1	-1.8	-5	-0.5	60	MT-200	Switching regulator
120	12	150	2SC2838	150	5	60-	4	3	1.8	5	0.5	70	MT-200	Switching regulator
120	-12	-160	2SA1073	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	60	TO-3	Switching regulator
120	-12	-160	2SA1076	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	60	MT-200	Switching regulator
120	-12	-160	2SA1389	-160	-7	60-200	-5	-1	-1.8	-5	-0.5	30	MT-200	Switching regulator
120	15	400	2SC2751	500	7	15-80	5	2	1	10	2		TO-3PN	Switching applications
120	15	400	2SC4139	500	10	10-30	4	8	0.5	8	1.6	10	TO-3PN	Switching regulator
120	30	90	BUX39	120	7	15-45	4	12	1.6	20	2.5	>8	TO-3	Switching regulator
125	8	250	2N6306	500	8	15-75	5	3	5	8	2	>5	TO-3	Switching regulator
125	8	300	2N6307	600	8	15-75	5	3	5	8	2	>5	TO-3	Switching regulator
125	8	350	2N6308	700	8	12-60	5	3	5	8	2.67	>5	TO-3	Switching regulator
125	10	800	MJW16018	1500	6	4-	5	5	5	10	5		TO-247	Inverter/Driver/Motor control
125	15	600	BUV48B	1200	7	15-50	5	1	3	10	4		TO-3PN	Switching regulator
125	15	700	BUV48C	1200	7	15-50	5	1	3	10	4		TO-3PN	Switching regulator
125	16	100	MJE4340	100	7	15-	2	8	3.5	16	2	>1	TO-3PN	Switching regulator circuits
125	-16	-100	MJE4350	-100	-7	15-	-2	-8	-3.5	-16	-2	>1	TO-3PN	Switching regulator circuits
125	16	120	MJE4341	120	7	15-	2	8	3.5	16	2	>1	TO-3PN	Switching regulator circuits
125	-16	-120	MJE4351	-120	-7	15-	-2	-8	-3.5	-16	-2	>1	TO-3PN	Switching regulator circuits
125	16	140	MJE4342	140	7	15-	2	8	3.5	16	2	>1	TO-3PN	Switching regulator circuits
125	-16	-140	MJE4352	-140	-7	15-	-2	-8	-3.5	-16	-2	>1	TO-3PN	Switching regulator circuits
125	16	160	MJE4343	160	7	15-	2	8	3.5	16	2	>1	TO-3PN	Switching regulator circuits
125	-16	-160	MJE4353	-160	-7	15-	-2	-8	-3.5	-16	-2	>1	TO-3PN	Switching regulator circuits
125	20	400	2SC3850	500	7	15-	5	2	1	10	2	15	TO-3PN	Switching applications
130	14	600	2SC4706	900	7	10-25	4	7	0.5	7	1.4	6	TO-3PN	Switching regulator
130	15	450	2SC4059	600	7	10-	5	7.5	1	7.5	1.5	20	TO-247	Power switching
130	18	400	2SC4140	500	10	10-30	4	10	0.5	10	2	10	TO-3PN	Switching regulator
135	15	450	MJW16010	850	6	5-	5	15	3	10	1.3		TO-247	Switching regulator
140	8	800	2SC3461	1100	7	10-40	5	0.6	2	4	0.8	15	TO-3PN	Switching regulator
140	10	550	BUV70	1300	7	5-	2	3.2	2	6	1.2	9	TO-3PN	Switching regulator
140	16	400	2SC4109	500	7	15-50	5	2	0.8	10	2	20	TO-3PN	Switching regulator
150	8	300	2N6671	450	8	10-40	3	5	2	8	4	15-60	TO-3	Switching regulator
150	8	350	2N6672	550	8	10-40	3	5	2	8	4	15-60	TO-3	Switching regulator
150	8	400	2N6673	650	8	10-40	3	5	2	8	4	15-60	TO-3	Switching regulator
150	10	300	2N6931	450	8	8-35	3	10	1	10	2		TO-3PN	Switching regulator

Power Transistors For Switch-mode Regulator

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _g (A)	TYP		
150	10	400	2N6932	650	8	8-35	3	10	1	10	2		TO-3PN	Switching regulator
150	10	450	2N6752	850	8	8-40	3	5	3	10	3	15-60	TO-3	Switching regulator
150	10	450	BUX81	1000	10	20-	5	1.2	3	8	2.5	8	TO-3	Switching regulator
150	10	500	2N6753	900	8	8-40	3	5	3	10	3	15-60	TO-3	Switching regulator
150	10	500	2N6754	1000	8	8-40	3	5	3	10	3	15-60	TO-3	Switching regulator
150	10	800	2SC3307	900	7	10-	5	5	1	5	1		TO-3PL	Switching applications
150	10	800	2SC4237	1200	7	8-	5	5	1	5	1	8	TO-247	Power switching
150	-15	-180	2SB552	-220	-5	25-80	-5	-5	-2	-10	-1	3.5	TO-3	Power switching
150	-15	-200	2SB645	-200	-5	40-140	-5	-1	-3	-10	-1	12	TO-3	Power switching
150	15	230	2SC5200	230	5	55-160	5	1	3	8	0.8	30	TO-3PL	High current switching
150	15	400	2SC3874	500	7	15-	5	0.1	1	10	2	20	TO-3PL	High speed switching
150	15	400	2SD641	600	7	20-140	5	5	1.5	10	2	4	TO-3	Switching regulator/Driver
150	15	400	BUV48	850	7	8-	5	10	5	15	3		TO-3PN	Switching regulator
150	15	450	BUV48A	1000	7	8-	5	8	5	12	2.4		TO-3PN	Switching regulator
150	16	150	2N6259	170	7	15-60	2	8	2.5	16	3.2		TO-3	Switching regulator
150	20	250	BUX12	300	7	20-60	4	5	1.5	10	1.25	>8	TO-3	Power switching/Motor control
150	20	300	2N6653	350	6	>10	5	15	1.8	15	3	15	TO-3	Switching regulator
150	20	350	2N6654	500	6	>10	15	10	2.2	15	3		TO-3	Switching regulator
150	20	450	2SC4060	600	7	10-	5	10	1	10	2	20	TO-247	Power switching
150	25	500	2SC3988	800	7	15-50	5	2.4	1	12	2.4	18	TO-3PN	Switching regulator
150	30	60	BUW48	120	7				0.5	15	1.5	8	TO-3PN	Switching regulator/Motor control
150	30	80	BUW49	160	7				1.2	30	3	8	TO-3PN	Switching regulator/Motor control
160	12	800	2SC3465	1100	7	10-40	5	0.8	2	6	1.2	15	TO-3	Switching regulator
175	10	200	2N6249	300	6	10-50	3	10	1.5	10	1	>2.5	TO-3	Switching regulator
175	10	275	2N6250	375	6	8-50	3	10	1.5	10	1.25	>2.5	TO-3	Switching regulator
175	10	350	2N6251	450	6	6-50	3	10	1.5	10	1.67	>2.5	TO-3	Switching regulator
175	10	400	BU323A	600	8	150-2K	6	6	2.7	10	0.3		TO-3	Switching regulator
175	10	400	MJ10012	600	8	100-2K	6	6	2.5	10	2		TO-3	Switching regulator/Motor control
175	10	800	MJ16018	1500	6	4-	5	5	5	10	5		TO-3	Inverter/driver/Motor control
175	15	300	2N6546	650	9	12-60	2	5	5	15	3	6-35	TO-3	Switching regulator
175	15	300	2N6674	450	7	15-40	3	1	5	15	5	15	TO-3	Switching regulator
175	15	400	2N6547	850	9	12-60	2	5	5	15	3	6-35	TO-3	Switching regulator
175	15	400	2N6675	650	7	15-40	3	1	5	15	5	15	TO-3	Switching regulator
175	15	400	BUS13	850	9	15-50	5	2	1.5	8	1.6		TO-3	Switching regulator
175	15	400	BUW13	850	9	10-35	5	1.5	1.5	10	2		TO-3PN	Switching regulator
175	15	400	BUW13W	850	9	10-35	5	1.2	1.5	10	2		TO-247	Switching regulator
175	15	450	2N6836	850	6	8-30	5	10	2.5	10	1	10-75	TO-3	Switching regulator
175	15	450	BUS13A	1000	9	15-50	5	1	1.5	8	1.6		TO-3	Switching regulator
175	15	450	BUW13A	1000	9	10-35	5	1.5	1.5	8	1.6		TO-3PN	Switching regulator
175	15	450	BUW13AW	1000	9	10-35	5	1.2	1.5	8	1.6		TO-247	Switching regulator
175	15	450	MJ16010	850	6	5-	5	15	3	10	1.3		TO-3	Switching regulator
175	15	450	MJ16012	850	6	5-	5	15	3	10	1.3		TO-3	Switching regulator
200	20	400	2SC2830	500	7	15-50	5	2.4	1.2	12	2.4		TO-3	Switching regulator
200	30	400	2SC3058	600	7	10-40	5	20	1	20	4	30	TO-3	Switching regulator
250	30	400	BUX98	850	7	15-50	5	1	1.5	20	4		TO-3	Converter/Linear and switching
250	30	450	BUX98A	1000	7	15-50	5	1	1.5	16	3.2		TO-3	Converter/Linear and switching

Medium Power Transistors

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
15	5	60	BDX35	100	5	45-450	10	0.5	1.2	7	0.7	100	TO-126	High current switching
15	5	60	BDX36	120	5	45-450	10	0.5	2	10	1	100	TO-126	High current switching
15	5	75	BDX37	120	5	45-450	10	0.5	1.2	7	0.7	100	TO-126	High current switching
30	1	40	TIP29	40	5	15-75	4	1	0.7	1	0.125	>3	TO-220	Power amplifier and switching
30	-1	-40	TIP30	-40	-5	15-75	-4	-1	-0.7	-1	-0.125	>3	TO-220	Power amplifier and switching
30	1	60	TIP29A	60	5	15-75	4	1	0.7	1	0.125	>3	TO-220	Power amplifier and switching
30	-1	-60	TIP30A	-60	-5	15-75	-4	-1	-0.7	-1	-0.125	>3	TO-220	Power amplifier and switching
30	1	80	TIP29B	80	5	15-75	4	1	0.7	1	0.125	>3	TO-220	Power amplifier and switching
30	-1	-80	TIP30B	-80	-5	15-75	-4	-1	-0.7	-1	-0.125	>3	TO-220	Power amplifier and switching
30	1	100	TIP29C	100	5	15-75	4	1	0.7	1	0.125	>3	TO-220	Power amplifier and switching
30	-1	-100	TIP30C	-100	-5	15-75	-4	-1	-0.7	-1	-0.125	>3	TO-220	Power amplifier and switching
30	3	45	BD175	45	5	40-250	2	0.15	0.8	1	0.1	>3	TO-126	Switching/Medium power linear
30	-3	-45	BD176	-45	-5	40-250	-2	-0.15	-0.8	-1	-0.1	>3	TO-126	Switching/Medium power linear
30	3	60	BD177	60	5	40-250	2	0.15	0.8	1	0.1	>3	TO-126	Switching/Medium power linear
30	-3	-60	BD178	-60	-5	40-250	-2	-0.15	-0.8	-1	-0.1	>3	TO-126	Switching/Medium power linear
30	3	80	BD179	80	5	40-250	2	0.15	0.8	1	0.1	>3	TO-126	Switching/Medium power linear
30	-3	-80	BD180	-80	-5	40-250	-2	-0.15	-0.8	-1	-0.1	>3	TO-126	Switching/Medium power linear
35	-1	-175	2N6420	-250	-6	40-200	-10	-0.5	-5	-1	-0.125		TO-66	Switching/Amplifier/Regulator
36	4	22	BD433	22	5	85-140	1	0.5	0.5	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-22	BD434	-22	-5	85-140	-1	-0.5	-0.5	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	4	32	BD435	32	5	85-140	1	0.5	0.5	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-32	BD436	-32	-5	85-140	-1	-0.5	-0.5	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	4	45	BD437	45	5	85-140	1	0.5	0.6	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-45	BD438	-45	-5	85-140	-1	-0.5	-0.6	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	4	60	BD439	60	5	40-140	1	0.5	0.8	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-60	BD440	-60	-5	40-140	-1	-0.5	-0.8	-2	-0.2	>3	TO-126	Switching/Medium power linear
36	4	80	BD441	80	5	40-140	1	0.5	0.8	2	0.2	>3	TO-126	Switching/Medium power linear
36	-4	-80	BD442	-80	-5	40-140	-1	-0.5	-0.8	-2	-0.2	>3	TO-126	Switching/Medium power linear
40	3	40	TIP31	40	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-40	TIP32	-40	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	3	60	TIP31A	60	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-60	TIP32A	-60	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	3	80	TIP31B	80	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-80	TIP32B	-80	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	3	100	TIP31C	100	5	10-50	4	3	1.2	3	0.375	>3	TO-220	Power amplifier and switching
40	-3	-100	TIP32C	-100	-5	10-50	-4	-3	-1.2	-3	-0.375	>3	TO-220	Power amplifier and switching
40	4	45	2N6121	45	5	25-100	2	1.5	1.4	4	1	>2.5	TO-220	Power amplifier and switching
40	4	45	BD675	45	5	750-	3	1.5	2.5	1.5	0.03		TO-126	Switching/Medium power linear
40	4	45	BD675A	45	5	750-	3	2	2.8	2	0.04		TO-126	Switching/Medium power linear
40	-4	-45	2N6124	-45	-5	25-100	-2	-1.5	-1.4	-4	-1	>2.5	TO-220	Power amplifier and switching
40	-4	-45	BD676	-45	-5	750-	-3	-1.5	-2.5	-1.5	-0.03		TO-126	Switching/Medium power linear
40	-4	-45	BD676A	-45	-5	750-	-3	-2	-2.8	-2	-0.04		TO-126	Switching/Medium power linear
40	4	60	2N6122	60	5	25-100	2	1.5	1.4	4	1	>2.5	TO-220	Power amplifier and switching
40	4	60	BD677	60	5	750-	3	1.5	2.5	1.5	0.03		TO-126	Switching/Medium power linear
40	4	60	BD677A	60	5	750-	3	2	2.8	2	0.04		TO-126	Switching/Medium power linear
40	-4	-60	2N6125	-60	-5	25-100	-2	-1.5	-1.4	-4	-1	>2.5	TO-220	Power amplifier and switching
40	-4	-60	BD678	-60	-5	750-	-3	-1.5	-2.5	-1.5	-0.03		TO-126	Switching/Medium power linear
40	-4	-60	BD678A	-60	-5	750-	-3	-2	-2.8	-2	-0.04		TO-126	Switching/Medium power linear
40	4	80	2N6123	80	5	20-80	2	1.5	1.4	4	1	>2.5	TO-220	Power amplifier and switching
40	4	80	BD679	80	5	750-	3	1.5	2.5	1.5	0.03		TO-126	Switching/Medium power linear
40	4	80	BD679A	80	5	750-	3	2	2.8	2	0.04		TO-126	Switching/Medium power linear
40	-4	-80	2N6126	-80	-5	20-80	-2	-1.5	-1.4	-4	-1	>2.5	TO-220	Power amplifier and switching
40	-4	-80	BD680	-80	-5	750-	-3	-1.5	-2.5	-1.5	-0.03		TO-126	Switching/Medium power linear
40	-4	-80	BD680A	-80	-5	750-	-3	-2	-2.8	-2	-0.04		TO-126	Switching/Medium power linear

Medium Power Transistors

P _C	I _C	V _{ceo}	Model	V _{cbo}	V _{ebo}	h _{FE}			V _{ce(sat)} (V)			f _T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		V _{CE} (V)	I _C (A)	max	I _C (A)	I _B (A)	TYP		
40	4	100	2N6473	110	5	15-150	4	1.5	2.5	4	2	>4	TO-220	Switching and amplifier
40	4	100	BD681	100	5	750-	3	1.5	2.5	1.5	0.03		TO-126	Switching/Medium power linear
40	-4	-100	2N6475	-110	-5	15-150	-4	-1.5	-1.2	-1.5	-0.15	>4	TO-220	Switching and amplifier
40	-4	-100	BD682	-100	-5	750-	-3	-1.5	-2.5	-1.5	-0.03		TO-126	Switching/Medium power linear
40	4	120	2N6474	130	5	15-150	4	1.5	2.5	4	2	>4	TO-220	Switching and amplifier
40	4	120	BD683	140	5	750-	3	1.5	2.5	1.5	0.006		TO-126	Switching/Medium power linear
40	-4	-120	2N6476	-130	-5	15-150	-4	-1.5	-1.2	-1.5	-0.15	>5	TO-220	Switching and amplifier
40	5	22	BD943	22	7	85-475	1	0.5	0.5	2	0.2	>3	TO-220	Switching/Medium power linear
40	5	60	BD949	60	7	40-	4	0.5	1	2	0.2	>3	TO-220	Switching/Medium power linear
40	5	100	BD953	100	7	40-	4	0.5	1	2	0.2	>3	TO-220	Switching/Medium power linear
40	7	80	2N5427	80	6	30-120	2	2	1.2	7	0.7	>20	TO-66	Switching and amplifier
40	7	80	2N5428	80	6	60-240	2	2	1.2	7	0.7	>20	TO-66	Switching and amplifier
40	7	100	2N5429	100	6	30-120	2	2	1.2	7	0.7	>20	TO-66	Switching and amplifier
40	7	100	2N5430	100	6	60-240	2	2	1.2	7	0.7	>20	TO-66	Switching and amplifier
50	7	40	2N5490	60	5	20-100	4	2	1	2	0.2	>0.8	TO-220	Power and amplifier
50	7	40	2N5494	60	5	20-100	4	3	1	3	0.3	>0.8	TO-220	Power and amplifier
50	7	55	2N5492	75	5	20-100	4	2.5	1	2.5	0.25	>0.8	TO-220	Power and amplifier
50	7	70	2N5496	90	5	20-100	4	3.5	1	3.5	0.35	>0.8	TO-220	Power and amplifier
60	8	45	BDX53	45	5	750-	3	3	2	3	0.012		TO-220	Driver/Power linear and switching
60	-8	-45	BDX54	-45	-5	750-	-3	-3	-2	-3	-0.012		TO-220	Driver/Power linear and switching
60	8	60	BDX53A	60	5	750-	3	3	2	3	0.012		TO-220	Driver/Power linear and switching
60	-8	-60	BDX54A	-60	-5	750-	-3	-3	-2	-3	-0.012		TO-220	Driver/Power linear and switching
60	8	80	BDX53B	80	5	750-	3	3	2	3	0.012		TO-220	Driver/Power linear and switching
60	-8	-80	BDX54B	-80	-5	750-	-3	-3	-2	-3	-0.012		TO-220	Driver/Power linear and switching
60	8	100	BDX53C	100	5	750-	3	3	2	3	0.012		TO-220	Driver/Power linear and switching
60	-8	-100	BDX54C	-100	-5	750-	-3	-3	-2	-3	-0.012		TO-220	Driver/Power linear and switching
65	6	40	TIP41	40	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-40	TIP42	-40	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching
65	6	60	TIP41A	60	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-60	TIP42A	-60	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching
65	6	80	TIP41B	80	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-80	TIP42B	-80	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching
65	6	100	TIP41C	100	5	15-75	4	3	1.5	6	0.6	>3	TO-220	Power amplifier and switching
65	-6	-100	TIP42C	-100	-5	15-75	-4	-3	-1.5	-6	-0.6	>3	TO-220	Power amplifier and switching
65	6	120	TIP41D	160	5	30-	4	0.3	1.5	6	1.5	>3	TO-220	Power amplifier and switching
65	6	140	TIP41E	180	5	30-	4	0.3	1.5	6	1.5	>3	TO-220	Power amplifier and switching
65	6	160	TIP41F	200	5	30-	4	0.3	1.5	6	1.5	>3	TO-220	Power amplifier and switching
70	10	45	BDX33	45	5	750-	3	4	2.5	4	0.008		TO-220	Power linear and switching
70	-10	-45	BDX34	-45	-5	750-	-3	-4	-2.5	-4	-0.008		TO-220	Power linear and switching
70	10	60	BDX33A	60	5	750-	3	4	2.5	4	0.008		TO-220	Power linear and switching
70	-10	-60	BDX34A	-60	-5	750-	-3	-4	-2.5	-4	-0.008		TO-220	Power linear and switching
70	10	80	BDX33B	80	5	750-	3	3	2.5	3	0.006		TO-220	Power linear and switching
70	-10	-80	BDX34B	-80	-5	750-	-3	-3	-2.5	-3	-0.006		TO-220	Power linear and switching
70	10	100	BDX33C	100	5	750-	3	3	2.5	3	0.006		TO-220	Power linear and switching
70	-10	-100	BDX34C	-100	-5	750-	-3	-3	-2.5	-3	-0.006		TO-220	Power linear and switching
117	-15	-60	BDX18	-100	-7	20-70	-4	-4	-1.1	-4	-0.4	4	TO-3	Power amplifier/Regulator

Power Transistors For Industrial-military Use

P_C	I_C	V_{CE0}	Model	V_{CB0}	V_{EB0}	h_{FE}			$V_{CE(sat)}$ (V)			f_T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		$V_{CE}(V)$	$I_C(A)$	max	$I_C(A)$	$I_B(A)$	TYP		
100	10	200	BUY69C	500	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	
100	10	325	BUY69B	800	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	
100	10	400	BUY69A	1000	8	15-	10	2.5	3.3	8	2.5	>10	TO-3	
120	15	200	BUX41	250	7	15-45	4	5	1.6	8	1	>8	TO-3	Linear and switching
120	20	125	BUX40	160	7	15-45	4	10	1.6	15	1.88	>8	TO-3	Linear and switching
125	8	400	BUW12	850	9	15-50	5	1	1.5	6	1.2		TO-3PN	Operating in industrial
125	8	450	BUW12A	1000	9	15-50	5	1	1.5	6	1.2		TO-3PN	Operating in industrial
140	10	120	2N6354	150	6.5	20-150	2	5	1	10	1		TO-3	Power switching
150	20	200	BUX11	250	7	20-60	2	6	1.5	12	1.5	>8	TO-3	Linear and switching
150	25	125	BUX10	160	7	20-60	2	10	1.2	20	2	>8	TO-3	Linear and switching
150	40	200	BUY21	250	7	-60	2	12	1.5	25	3	>8	TO-3	Switching and linear
175	15	600	BUX48B	1200	7	15-50	5	1	3	10	4		TO-3	Linear and switching
175	15	700	BUX48C	1200	7	15-50	5	1	3	10	4		TO-3	Linear and switching
200	-25	-80	2N6436	-100	-6	20-120	-2	-10	-1.8	-25	-2.5	>40	TO-3	Power amplifier/Switching circuit
200	25	100	2N6338	120	6	30-120	2	10	1.8	25	2.5	>40	TO-3	Power amplifier/Switching circuit
200	-25	-100	2N6437	-120	-6	20-120	-2	-10	-1.8	-25	-2.5	>40	TO-3	Power amplifier/Switching circuit
200	25	120	2N6339	140	6	30-120	2	10	1.8	25	2.5	>40	TO-3	Power amplifier/Switching circuit
200	-25	-120	2N6438	-140	-6	20-120	-2	-10	-1.8	-25	-2.5	>40	TO-3	Power amplifier/Switching circuit
200	25	140	2N6340	160	6	30-120	2	10	1.8	25	2.5	>40	TO-3	Power amplifier/Switching circuit
200	25	150	2N6341	180	6	30-120	2	10	1.8	25	2.5	>40	TO-3	Power amplifier/Switching circuit
250	30	325	BUY23	400	7	15-60	4	8	1	16	3.2	>8	TO-3	Switching and linear
250	30	400	BUX98	850	7	15-50	5	1	1.5	20	4		TO-3	Linear and switching
250	30	450	BUX98A	1000	7	15-50	5	1	1.5	16	3.2		TO-3	Linear and switching

Power Transistors For Humidifier

P_C	I_C	V_{ce0}	Model	V_{cbo}	V_{ebo}	h_{FE}			$V_{ce(sat)}$ (V)			f_T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		$V_{CE}(V)$	$I_C(A)$	max	$I_C(A)$	$I_B(A)$	TYP		
30	7	120	2SC4153	200	8	70-220	4	3	0.5	3	0.3	30	TO-220F	
50	7	120	2SC3834	200	8	70-220	4	3	0.5	3	0.3	30	TO-220	
60	7	200	BU406	400	6	40-120	5	2	1	5	0.5	>10	TO-220	
70	7	120	2SC3835	200	8	70-220	4	3	0.5	3	0.3	30	TO-3PN	

Power Transistors For Motor

P_C	I_C	V_{ce0}	Model	V_{cbo}	V_{ebo}	h_{FE}			$V_{ce(sat)}$ (V)			f_T (MHz)	Package	Function
(W)	(A)	(V)		(V)	(V)		$V_{CE}(V)$	$I_C(A)$	max	$I_C(A)$	$I_B(A)$	TYP		
40	1	400	TIP50	500	5	30-150	10	0.3	1	1	0.2	>10	TO-220	
60	6	300	T2141F	400	5	600-	2	0.005	2	6	0.6		TO-220Fa	
60	10	200	T06	400	6	80-160	5	1	1	5	0.5		TO-220	
80	6	300	T2141	400	5	600-	2	0.005	2	6	0.6		TO-220	
80	6	300	T2142F	400	5	600-	2	0.005	2	6	0.6		TO-3PML	
80	10	300	T30F	500	5	1000-	2	3	2.5	6	0.006		TO-3PML	
80	10	400	T25	450	7	30-240	5	1	1.2	4	0.8		TO-3PN	
100	6	300	T2142	400	5	600-	2	0.005	2	6	0.6		TO-3PN	
100	10	400	T430	600	5	800-	4	4	1.8	7	0.14		TO-3PN	
100	10	300	GT43	400	7	2000-	4	4	3	6	0.05		TO-3PN	
100	10	300	T30	500	5	1000-	2	3	2.5	6	0.006		TO-3PN	
118	10	400	MJH10012	600	8	1000-	6	3	2.5	10	2		TO-3PN	

Triacs Series

P_{GM}	$I_{T(AV)}$	V_{DRM}	Model	I_{TSM}	V_{RRM}	I_{GT} (mA)	V_{GT} (V)		V_{TM} (V)		Package
(W)	(A)	(V)		(A)	(V)	max	max	V_{DM}	max	$I_{TM}(A)$	
0.8	400	400	MAC97A6	8	400	35	1.8	12	1.7	1.6	TO-92
0.8	600	600	MAC97A8	8	600	35	1.8	12	1.7	1.6	TO-92
1	500	500	BT131	10	500	35	1.8	12	1.7	1.6	TO-92
4	600	600	BTA04	40	600	35	1.8	12	1.7	8	TO-220insulated
4	600	600	BTB04	40	600	35	1.8	12	1.7	8	TO-220
4	600	600	Z0409	40	600	10	1.3	12	2	5.5	TO-202(3)
4	600	600	Z0405	40	600	5	1.3	12	2	5.5	TO-202(3)
4	600	600	Z0410	40	600	25	1.3	12	2	5.5	TO-202(3)
6	600	600	BTA06	60	600	100	1.8	12	1.65	8.5	TO-220insulated
6	600	600	BTB06	60	600	100	1.8	12	1.65	8.5	TO-220
8	600	600	BTA08	80	600	100	1.8	12	1.55	11	TO-220insulated
8	600	600	BTB08	80	600	100	1.8	12	1.55	11	TO-220
10	600	600	BTA10	100	600	30	1.8	12	1.55	14	TO-220insulated
10	600	600	BTB10	100	600	30	1.8	12	1.55	14	TO-220
12	600	600	BTA12	120	600	100	1.8	12	1.55	17	TO-220insulated
12	600	600	BTB12	120	600	100	1.8	12	1.55	17	TO-220
16	600	600	BTA16	160	600	100	1.8	12	1.6	22.5	TO-220insulated
16	600	600	BTB16	160	600	100	1.8	12	1.6	22.5	TO-220
5	2	600	BT134	20	600	10	1.8	12	1.7	4	TO-126P
5	4	600	BT136	25	600	25	1.8	12	1.7	5	TO-220
5	8	500	BT137	65	500	25	1.8	12	1.65	10	TO-220
5	12	600	BT138	95	600	100	1.8	12	1.7	15	TO-220
5	16	600	BT139	140	600	100	1.8	12	1.6	20	TO-220

Typical application: Motor control, industrial & domestic lighting, heating & static switching & etc.

Thyristor Series

P_{GM}	$I_{T(AV)}$	V_{DRM}	Model	I_{TSM}	V_{RRM}	I_{GT} (mA)	V_{GT} (V)		V_{TM} (V)		Package
(W)	(A)	(V)		(A)	(V)	max	max	V_{DM}	max	$I_{TM}(A)$	
	4	600	X0402MF	20	600	0.2	0.8	12	1.7	4	TO-202(3)
	4	600	X0405MF	20	600	0.05	0.8	12	1.7	4	TO-202(3)
	20	600	KP20-6	200	600	0.02	1.5	6	1.7	40	TO-220
0.1	1	400	MCR100-6	10	400	0.12	0.8	6	1.7	1	TO-92
0.1	1	600	MCR100-8	10	600	0.12	0.8	6	1.7	1	TO-92
0.5	2	400	2P4M	20	400	0.1	0.8	6	1.8	4	TO-202
2	0.8	400	BT169D	8	400	0.12	0.8	6	1.35	1	TO-92
2	0.8	600	BT169G	8	600	0.12	0.8	6	1.35	1	TO-92
	8	600	BT151	80	600	12	0.8	12	1.7	16	TO-220

Typical application: Capacitive discharge ignitions, motor control in kitchen aids, overvoltage crowbar-protection in low power supplies & etc.

STK Thick Film Hybrid IC Series

Maximum ratings					Operating characteristics				Model
V _{DSS} (V)	I _D (A)	T _{C MAX} (°C)	T _{stg} (°C)	T _{j MAX} (°C)	Input voltage (V)	Output voltage (V)	Output Power (W)	ON resistance (Ω)	
500	6	115	-30to115	150	40~41	85 to 132	110	1.4	STK730-010
	6						110	1.4	STK73902
	8						145	0.8	STK730-020
	10						180	0.7	STK730-030
	10						180	0.6	STK73903
	12						210	0.55	STK730-040
	12						210	0.55	STK73904
	15						280	0.3	STK730-050
	15						280	0.3	STK73905
	15						280	0.3	STK73909
900	3	115	-30to115	150		170 to 264	110	5	STK730-060
	3						110	5	STK73906
	5						180	3	STK730-070
	5						180	3	STK73907
	6						210	2	STK730-080
	6						210	2	STK73908
	8						280	1.2	STK730-090
	8						280	1.2	STK73909
	8						280	1.2	STK73909
	8						280	1.2	STK73909

Function: Self-excitation type feedback control switching regulator

STK Thick Film Hybrid IC Series

Output Power (W)	Supply voltage (V)		function	Model
	V _{CCmax}	V _{CC}		
15W+15W	±30.5	±20.0	AF power amplifier	STK4122II
20W+20W	±30.5	±18.5	2ch AF power amplifier	STK405-030
20W+20W	±34.5	±23.0	2ch AF power amplifier	STK4132II
25W+25W	±39.0	±26.0	AF power amplifier	STK4142II
30W+30W	±34.5	±22.0	2ch AF power amplifier	STK405-050
30W+35W	±42.0	±27.5	AF power amplifier	STK4152II
30W+35W	±45.0	±30.0	AF power amplifier	STK4162II
40W+40W	±39.0	±25.0	2ch AF power amplifier	STK405-070
40W+45W	±48.0	±32.0	AF power amplifier	STK4172II

Three-terminal Adjustable Regulator

P_T	I_O	V_I-V_O	V_{REF}	ΔV_{Omax}	ΔV_{Omax}	Package	Model
			$V_I-V_O=5V$; $I_O(mA)=$ 40~500	$V_I-V_O(V)=3\sim40$; $I_O(mA)=500$	$V_I-V_O=5V$; $I_O(mA)=$ 10~1500		
(W)	(A)	(V)	(V)	(V)	(V)		
internally	1.5	40	1.2~1.3	0.05%/V	1.00%	TO-3	LM317K
limited						TO-220	LM317T

Three-terminal Positive Voltage Regulator

P _T	I _O	V _O			ΔV _{Vmax}			ΔV _{Imax}			Model	Package
(W)	(A)	(V)	V _{in} (V)	I _O (A)	(V)	V _{in} (V)	I _O (A)	(V)	V _{in} (V)	I _O (mA)		
internally limited		4.75~5.25	20	0.5	0.1	8~20	0.5	0.1	14	5~1000	LM7805	TO-3/TO-220
		11.75~12.25	19	0.5	0.12	14.8~30	0.5	0.1	19	5~1000	LM7812	TO-3/TO-220
15	1.5	23.5~24.5	33	1	0.24	26.7~38	1	0.1		5~1500	LM7824	TO-220

*: Typical Value