

TO-220 Type Power Transistor Selection Guide (Continued)

Part Number		I _C (A)	V _{CEO} (V)	h _{FE}		@		Max V _{CE} (SAT)		P _D (W)	f _T (MHz)	Process (NPN/PNP)
NPN	PNP			Min	Max	I _C (A)	V _{CE} (V)	(V)	@ I _C (A)			
2N6130	2N6133	7	60	20	100	2.5	4	1.4	7	50	2.4	4E/5E
2N5496		7	70	20	100	3.5	4	1	0.35	50	0.8	4E
2N6292	2N6107	7	70	30	150	2	4	1	2	40	4	4E/5E
2N6131	2N6134	7	80	20	100	2.5	4	2	7	50	2.5	4E/5E
2N6386		8	40	1000	20,000	3	3	2	3	40	20	4J
BD347	BD346	8	60	40	140	2	2.5	0.6	4	60	4	4A/5A
D44H1	D45H1	10	30	35		2	1	1	8	50	50	4Q/5Q
D44H2	D45H2	10	30	60		2	1	1	8	50	50	4Q/5Q
D44H4	D45H4	10	45	35		2	1	1	8	50	50	4Q/5Q
D44H5	D45H5	10	45	60		2	1	1	8	50	50	4Q/5Q
2N6099		10	60	20	80	4	4	2.5	10	75	0.8	4A
D44H7	D45H7	10	60	35		2	1	1	8	50	50	4Q/5Q
D44H8	D45H8	10	60	60		2	1	1	8	50	50	4Q/5Q
SE9300	SE9400	10	60	1000		4	3	2	4	70	1	4K/5K
2N6101		10	70	20	80	5	4	2.5	10	75	0.8	4A
D44H10	D45H10	10	80	35		2	1	1	8	50	50	4Q/5Q
D44H11	D45H11	10	80	60		2	1	1	8	50	50	4Q/5Q
MJE2801T	MJE2901T	10	60	25	100	3	2			60		4A/5A
MJE3055T	MJE2955T	10	60	20	70	4	4	1.1	4	60	2	4A/5A
TIP100	TIP105	10	60	1000		3	4	2	3	60		4K/5K
TIP101	TIP106	10	80	1000		3	4	2	3	60		4K/5K
TIP102	TIP107	10	100	1000		3	4	2	3	60		4K/5K
SE9301	SE9401	10	80	1000		4	3	2	4	70	1	4K/5K
SE9302	SE9402	10	100	1000		4	3	2	4	70	1	4K/5K
2N6486	2N6489	15	40	20	150	5	4	1.3	5	75	5	4A/5A
2N6487	2N6490	15	60	20	150	5	4	1.3	5	75	5	4A/5A
2N6488	2N6491	15	80	20	150	5	4	1.3	5	75	5	4A/5A

Pinout: BCE



POWER (Continued)

Type No.	Case Style	V _{CB0} (V) Min	V _{CE0} (V) Min	V _{EB0} (V) Min	I _{CEX} [†] I _{CEB} [†] I _{CB0} (μA) Max	@	V _{CB} (V)	h _{FE}				I _C (A)	&	V _{CE} (V)	V _{CE} (SAT) (V) &				V _{BE} (SAT) (V) Min Max	@	I _C (A)	C _{ob} (pF) Max	f _T (MHz) &				I _C (A)	Process No.	
								Min	Max	@	I _C (A)				Max	I _C (V)	Max	I _C (V)					Max	I _C (A)	Min	Max			@
2N5190	TO-126		40		100		40	25	100		1.5	2		0.6			1.5		2			1			2			1	4E
								10			4	2		1.4			4												
2N5191	TO-126		60		100		60	25	100		1.5	2		0.6			1.5		2			1			2			1	4E
											4	2		1.4			4												
2N5192	TO-126		80		100		80	20	80		1.5	2		0.6			1.5		2			1			2			1	4E
								7			4	2		1.4			4												
2N5294	TO-220		70		500†		50 (100Ω)	30	120		0.5	4		1			0.5		2			0.2			2			0.2	4E
2N5296	TO-220		40		100		35	30	120		1	4		1.0			1		2			0.2			2			0.2	4E
2N5298	TO-220		60		500†		50 (100Ω)	20	80		1.5	1		1.0			1.5		2			0.2			2			0.2	4E
2N5490	TO-220		40		5 mA*		55	20	100		2	4		2.0			0.5												4E
								5			6.5	4																	
2N5492	TO-220		55		1 mA*		70	20	100		2.5	4		2.0			0.2												4E
								5			6.5	4																	
2N5494	TO-220		40		1 mA*		55	20	100		3	4		2.0			0.5												4E
								5			6.5	4																	
2N5496	TO-220		70		1 mA*		85	20	100		3.5	4		2.0			7												4E
								5			7	4																	
2N6121	TO-220		45		100		45	25	100		1.5	2		0.6			1.5		2.5			1						1	4E
								10			4	2		1.4			4												
2N6122	TO-220		60		100		60	25	100		1.5	2		0.6			1.5		2.5			1						1	4E
								10			4	2		1.4			4												
2N6123	TO-220		80		100		80	20	80		1.5	2		0.6			1.5		2.5			1						1	4E
								7			4	2		1.4			4												
2N6129	TO-220		40		100		40	20	100		2.5	4		1.4			7												4E
								7			7	4																	
2N6130	TO-220		60		100		60	20	100		2.5	4		1.4			7												4E
								7			7	4																	
2N6131	TO-220		80		100		80	20	100		2.5	4		2.0			7												4E
								5			7	4																	
2N6288	TO-220		30		100*		37.5	30	150		3	4		1.0			3	250	4			0.5						0.5	4E
								5			6.5	4		2.0			6.5												
2N6290	TO-220		50		100*		56	30	150		3	4		1.0			2.5	250	4			0.5						0.5	4E
								5			6.5	4		2.0			6.5												
2N6292	TO-220		70		100*		75	30	150		2	4		1.0			2	250	4			0.5						0.5	4E
								5			6.5	4		2.0			6.5												

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Part Number		I _C (A)	V _{CE0} (V)	h _{FE}		@		Max V _{CE} (SAT)		P _D (W)	f _T (MHz)	Process (NPN/PNP)
NPN	PNP			Min	Max	I _C (A)	V _{CE} (V)	(V)	@ I _C (A)			
TIP61	TIP62	0.5	40	15	100	0.5	4	0.7	0.5	20	3	4F/5F
TIP61A	TIP62A	0.5	60	15	100	0.5	4	0.7	0.5	20	3	4F/5F
TIP61B	TIP62B	0.5	80	15	100	0.5	4	0.7	0.5	20	3	4F/5F
TIP61C	TIP62C	0.5	100	15	100	0.5	4	0.7	0.5	20	3	4F/5F
TIP29	TIP30	1	40	15	75	1	4	0.7	1	30	3	4F/5F
TIP29A	TIP30A	1	60	15	75	1	4	0.7	1	30	3	4F/5F
TIP29B	TIP30B	1	80	15	75	1	4	0.7	1	30	3	4F/5F
TIP29C	TIP30C	1	100	15	75	1	4	0.7	1	30	3	4F/5F
TIP110	TIP115	2	60	1000		1	4	2.5	2	50	1	4J/5J
TIP111	TIP116	2	80	1000		1	4	2.5	2	50	1	4J/5J
TIP112	TIP117	2	100	1000		1	4	2.5	2	50	1	4J/5J
TIP31	TIP32	3	40	10	50	3	4	1.2	3	40	3	4F/5F
TIP31A	TIP32A	3	60	10	50	3	4	1.2	3	40	3	4F/5F
TIP31B	TIP32B	3	80	10	50	3	4	1.2	3	40	3	4F/5F
TIP31C	TIP32C	3	100	10	50	3	4	0.2	3	40	3	4F/5F
D44C1	D45C1	3	30	25		0.2	1	0.5	1	30	50	4P/5P
D44C2	D45C2	3	30	40	120	0.2	1	0.5	1	30	50	4P/5P
D44C3	D45C3	3	30	40	120	0.2	1	0.5	1	30	50	4P/5P
2N5296		4	40	30	120	1	4	1	1	36	2	4E
D44C4	D45C4	3	45	25		0.2	1	0.5	1	30	50	4P/5P
D44C5	D45C5	3	45	40	120	0.2	1	0.5	1	30	50	4P/5P
D44C6	D45C6	3	45	40	120	0.2	1	0.5	1	30	50	4P/5P
2N6121	2N6124	4	45	25	100	1.5	2	0.6	1.5	40	2.5	4E/5E
D44C7	D45C7	3	60	25		0.2	1	0.5	1	30	50	4P/5P
D44C8	D45C8	3	60	40	120	0.2	1	0.5	1	30	50	4P/5P
D44C9	D45C9	3	60	40	120	0.2	1	0.5	1	30	50	4P/5P
2N5298		4	60	20	80	1.5	4	1	1.5	36	2	4E
2N6122	2N6125	4	60	25	100	1.5	2	0.6	1.5	40	2.5	4E/5E
2N5294		4	70	30	120	0.5	4	1	0.5	36	2	4E
D44C10	D45C10	3	80	25		0.2	1	0.5	1	30	50	4P/5P
D44C11	D45C11	3	80	100	220	0.2	1	0.5	1	30	50	4P/5P
D44C12	D45C12	3	80	40	120	0.2	1	0.5	1	30	50	4P/5P
2N6123	2N6126	4	80	20	80	1.5	2	0.6	1.5	40	2.5	4E/5E
MJE105T	MJE205T	5	50	25	100	2	2			65		4A/5A
TIP120	TIP125	5	60	1000		3	3	2	3	65	1	4J/5K
TIP121	TIP126	5	80	1000		3	3	2	3	65	1	4K/5K
TIP122	TIP127	5	100	1000		3	3	2	3	65	1	4K/5K
TIP41	TIP42	6	40	15	75	3	4	1.5	6	65	3	4A/5A
TIP41A	TIP42A	6	60	15	75	3	4	1.5	6	65	3	4A/5A
TIP130	TIP135	6	60	1000	15,000	4	4	2	4	65	1	4K/5K
TIP41B	TIP42B	6	80	15	75	3	4	1.5	6	65	3	4A/5A
TIP131	TIP136	6	80	1000	15,000	4	4	2	4	65	1	4K/5K
TIP41C	TIP42C	6	100	15	75	3	4	1.5	6	65	3	4A/5A
TIP132	TIP137	6	100	1000	15,000	4	4	2	4	65	1	4K/5K
2N6288	2N6111	7	30	30	150	3	4	1	3	40	4	4E/5E
2N5494		7	40	20	100	2	4	1	0.2	50	0.8	4E
2N5494		7	40	20	100	3	4	1	0.3	50	0.8	4E
2N6129	2N6132	7	40	20	100	2.5	4	1.4	7	50	2.5	4E/5E
2N6290	2N6109	7	50	30	150	2.5	4	1	2.5	40	4	4E/5E
2N5492		7	55	20	100	2.5	4	1	0.25	50	0.8	4E