

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

Type No.	Case Style	VCBO (V) Min	VCEO (V) Min	VEBO (V) Min	ICES* ICEX† (μA) @ VCB (V) Max	hFE Min Max @ IC (A) & VCE (V)	VCE(SAT) (V) Max & VBE(SAT) (V) Min Max @ IC (A)	Cob (pF) Max	fT (MHz) Min Max @ IC (A)	Process No.
MJE170	TO-126		40		0.1 60	12 30 50 250 1.5 0.5 0.1 1	1.7 0.9 0.3 2.0 1.5 3 1.5 0.5	50	50 0.1	77
MJE710	TO-126		40		100† 40	8 20 40 1 0.5 0.15 1	1.0 0.4 0.15 1.3 0.5 0.15 1.5			77
MJE171	TO-126		60		0.1 80	12 30 50 250 1.5 0.5 0.1 1	1.7 0.9 0.3 2.0 1.5 3 1.5 0.5	50	50 0.1	78
MJE711	TO-126		60		100† 80	8 20 40 1 0.5 0.15 1	1.0 0.4 0.15 1.3 0.5 0.15 1.5			78
MJE172	TO-126		80		0.1 100	12 30 50 250 1.5 0.5 0.1 1	1.7 0.9 0.3 2.0 1.5 3 1.5 0.5	50	50 0.1	79
MJE712	TO-126		80		100† 80	8 20 40 1 0.5 0.15 1	1.0 0.4 0.15 1.3 0.5 0.15 1.5			79
2N6489	TO-220		40		500† 45	5 20 150 15 5 4	1.3 3.5 5 15		5 1	5A
2N6490	TO-220		60		500† 65	5 20 150 15 5 4	1.3 3.5 5 15		5 1	5A
2N6491	TO-220		80		500† 85	5 20 150 15 5 4	1.3 3.5 5 15		5 1	5A
MJE2901T	TO-220		60			25 100 3 2				5A
MJE2955T	TO-220		60		1 mA 70	20 5 70 4 10 4	1.1 4			5A
TIP42	TO-220		40		400* 40	15 30 75 3 0.3 4	1.5 6		3 0.5	5A
TIP42A	TO-220		60		400* 60	15 30 75 3 0.3 4	1.5 6		3 0.5	5A
TIP42B	TO-220		80		400* 80	15 30 75 3 0.3 4	1.5 6		3 0.5	5A
TIP42C	TO-220		100		400* 100	15 30 75 3 0.3 4	1.5 6		3 0.5	5A