

TO-126 Type Power Transistor Selection Guide

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)			
MJE3440		0.3	250	40	160	0.02	10	0.5	0.05	15	15	36
MJE3439		0.3	350	40	160	0.02	10	0.5	0.05	15	15	36
MJE341		0.5	150	25	200	0.05	10	1	0.05	20	15	36
MJE344		0.5	200	30	300	0.05	10	1	0.05	30	15	36
2N5655		0.5	250	30	250	0.1	10	1	0.1	20	10	36
MJE340		0.5	300	30	240	0.05	10			20		36
2N5656		0.5	300	30	250	0.1	10	1	0.1	20	10	36
2N5657		0.5	350	30	250	0.1	10	1	0.1	20	10	36
2N4921	2N4918	1	40	20	100	0.5	1	0.6	1	30	3	4H/5F
2N4922	2N4919	1	60	20	100	0.5	1	0.6	1	30	3	4H/5F
2N4923	2N4920	1	80	20	100	0.5	1	0.6	1	30	3	4H/5F
MJE720	MJE710	1.5	40	40		0.15	1	0.15	0.15	20		37/77
BD345	BD344	1.5	60	40	250	0.2	1	0.4	0.2	20	50	38/78
MJE721	MJE711	1.5	60	40		0.15	1	0.15	0.15	20		38/78
BD349	BD348	1.5	80	50	250	0.25	1	0.5	0.25	20	50	39/79
MJE722	MJE712	1.5	80	40		0.15	1	0.15	0.15	20		39/79
MJE520	MJE370	3	30	25		1	1			25		4F/5F
MJE180	MJE170	3	40	50	250	0.1	1	0.3	0.5	12.5	50	37/77
MJE181	MJE171	3	60	50	250	0.1	1	0.3	0.5	12.5	50	38/78
MJE182	MJE172	3	80	50	250	0.1	1	0.3	0.5	12.5	50	39/79
MJE220	MJE230	4	40	20		2	1	0.8	2	15	50	4P/5P
MJE221	MJE231	4	40	20		1	1	0.6	1	15	50	4P/5P
MJE222	MJE232	4	40	25		1	1	0.3	0.5	15	50	4P/5P
MJE521	MJE371	4	40	40		0.1	1			40		4F/5F
2N5190	2N5193	4	40	25	100	1.5	2	0.6	1.5	40	2	4E/5E
2N6037	2N6034	4	40	750	15k	2	3	2	2	40		4J/5J
2N5191	2N5194	4	60	25	100	1.5	2	0.6	1.5	40	2	4E/5E
MJE223	MJE233	4	60	20		2	1	0.8	2	15	50	4P/5P
MJE224	MJE234	4	60	20		1	1	0.6	1	15	50	4P/5P
MJE225	MJE235	4	60	25		1	1	0.3	0.5	15	50	4P/5P
MJE800	MJE700	4	60	750		1.5	3	2.5	1.5	40		4J/5J
MJE801	MJE701	4	60	750		2	3	2.8	2	40		4J/5J
2N6038	2N6035	4	60	750	15k	2	3	2	2	40		4J/5J
MJE240	MJE250	4	80	15		2	1	0.8	2	15	40	4P/5P
MJE241	MJE251	4	80	20		1	1	0.6	1	15	40	4P/5P
MJE242	MJE252	4	80	10		1	1	0.3	0.5	15	40	4P/5P
MJE802	MJE702	4	80	750		1.5	3	2.5	1.5	40		4J/5J
MJE803	MJE703	4	80	750		2	3	2.8	2	40		4J/5J
2N5192	2N5195	4	80	20	80	1.5	2	0.6	1.5	40	2	4E/5E
2N6039	2N6036	4	80	750	15k	2	3	2	2	40		4J/5J
MJE243	MJE253	4	100	20		1	1	0.6	1	15	40	4P/5P
MJE244	MJE254	4	100	10		1	1	0.3	0.5	15	40	4P/5P
MJE200	MJE210	5	25	45	180	2	1	0.75	2	15	65	4R/5R

Pinout: ECB



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