

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

NPN Transistors



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.
MJE223	TO-220		60		0.1	80	40	200	0.2	1	0.3			0.5	50	50		0.1	4P
							20		2	1	0.8		1.8	2					
MJE224	TO-220		60		0.1	80	40	150	0.2	1	0.3			0.5	50	50		0.1	4P
							20		1	1	0.6			1					
MJE225	TO-220		60		0.1	80	25		0.2	1	0.3			0.5	50	50		0.1	4P
							10		1	1									
MJE240	TO-220		80		0.1	80	40	200	0.2	1	0.3			0.5	50	40		0.1	4P
							15		2	1	0.8		1.8	2					
MJE241	TO-126		80		0.1	80	40	120	0.2	1	0.3			0.5	50	40		100	4P
											0.6								
							20		1	1	2.5		1.8	2					
MJE242	TO-126		80		0.1	80	25		0.2	1	0.3			0.5	50	40		100	4P
							10		1	1	2.5			2					
													1.8	4					
MJE243	TO-126		100		0.1	100	40	120	0.2	1	0.3			0.5	50	40		100	4P
											0.8		1.8	2					
											2.5			4					
MJE244	TO-126		100		0.1	100	25		0.2		0.3			0.5	50	40		100	4P
							10		1		2.5			2					
														4					
D44H1	TO-220		30		10	30	35		2	1	1.0		1.5	8					4Q
							20		4	1									
D44H2	TO-220		30		10	30	60		2	1	1.0		1.5	8					4Q
							40		4	1									
D44H4	TO-220		45		10	45	35		2	1	1.0		1.5	8					4Q
							20		4	1									
D44H5	TO-220		45		10	45	60		2	1	1.0		1.5	8					4Q
							40		4	1									
D44H7	TO-220		60		10	60	35		2	1	1.0		1.5	8					4Q
							20		4	1									
D44H8	TO-220		60		10	60	60		2	1	1.0		1.5	8					4Q
							40		4	1									
D44H10	TO-220		80		10	80	35		2	1	1.0		1.5	8					4Q
							20		4	1									
D44H11	TO-220		80		10	80	60		2	1	1.0		1.5	8					4Q
							40		4	1									