

## TO-202 Type Power Transistor Selection Guide

Part Number		I <sub>C</sub> (A)	V <sub>CEO</sub> (V)	h <sub>FE</sub>		@		Max V <sub>CE</sub> (SAT)		P <sub>D</sub> (W)	f <sub>T</sub> (MHz)	Process (NPN/PNP)
NPN	PNP			Min	Max	I <sub>C</sub> (A)	V <sub>CE</sub> (V)	(V)	@ I <sub>C</sub> (A)			
NSD457		0.1	160	25		0.03	10	1	0.03	1.75	50	48
NSE457		0.1	160	25		0.03	10	1	0.03	1.75	50	48
NSD458		0.1	250	25		0.03	10	1	0.03	1.75	50	48
NSE458		0.1	250	25		0.03	10	1	0.03	1.75	50	48
D40N1		0.1	250	30	90	0.02	10			1.67	50	48
D40N2		0.1	250	60	180	0.02	10			1.67	50	48
NSD131		0.1	250	30	90	0.03	10	1	0.02	1.75		48
NSD132		0.1	250	60	180	0.03	10	1	0.02	1.75		48
NSE869	NSE870	0.1	250	50		25m	20			1.8	60	17/76
NSD871	NSE872	0.1	300	50		25m	20			1.8	60	17/76
D40N3		0.1	300	30	90	0.02	10			1.67	50	48
D40N4		0.1	300	60	180	0.02	10			1.67	50	48
NSD133		0.1	300	30	90	0.03	10	1	0.02	1.75	50	48
NSD134		0.1	300	60	180	0.03	10	1	0.02	1.75	50	48
NSD459		0.1	300	25		0.03	10	1	0.03	1.75	50	48
NSE459		0.1	300	25		0.03	10	1	0.03	1.75	50	48
NSDU10		0.1	300	40		0.03	10	1.5	0.02	1.75	60	48
D40N5		0.1	375	20		0.02	10			1.67	50	48
NSD135		0.1	375	30	90	0.03	10	1	0.02	1.75	50	48
D40C1		0.5	30	10k	60k	0.2	5	1.5	0.5	1.33	75	05
D40C2		0.5	30	40k		0.2	5	1.5	0.5	1.33	75	05
D40C3		0.5	30	90k		0.2	5	1.5	0.5	1.33	75	05
D40C4		0.5	40	10k	60k	0.2	5	1.5	0.5	1.33	75	05
D40C5		0.5	40	40k		0.2	5	1.5	0.5	1.33	75	05
D40C7		0.5	50	10k	60k	0.2	5	1.5	0.5	1.33	75	05
D40C8		0.5	50	40k		0.2	5	1.5	0.5	1.33	75	05
D40P1		0.5	120	40		0.08	10	1	0.1	1.67	50	36
D40P3		0.5	180	40		0.08	10	1	0.1	1.67	50	36
D40P5		0.5	225	40		0.08	10	1	0.1	1.67	50	36
D40D1	D41D1	1	30	50	150	0.1	2	0.5	0.5	1.67	200	38/78
D40D2	D41D2	1	30	120	300	0.1	2	0.5	0.5	1.67	200	38/78
D40D3		1	30	290		0.1	2			1.67	200	38
D40D4	D41D4	1	45	50	150	0.1	2	0.5	0.5	1.67	200	38/78
D40D5	D41D5	1	45	120	360	0.1	2	0.5	0.5	1.67	200	38/78
NSD102	NSD202	1	45	50	150	0.1	5	0.2	0.1	1.75	60	38/78
NSD103	NSD203	1	45	120	360	0.1	5	0.2	0.1	1.75	60	38/78
D40D7	D41D7	1	60	50	150	0.1	2	1	0.5	1.67	200	38/78
D40D8	D41D8	1	60	120	360	0.1	2	1	0.5	1.67	200	38/78
2N6551	2N6554	1	60	80	250	0.05	1	0.5	0.25	2.0	75	38/78
D40D10	D41D10	1	75	50	150	0.1	2	1	0.5	1.67	200	38/78
D40D11	D41D11	1	75	120	360	0.1	2	1	0.5	1.67	200	38/78
D40D13	D41D13	1	75	50	150	0.1	2	1	0.5	1.67	200	38/78
D40D14	D41D14	1	75	120	360	0.1	2	1	0.5	1.67	200	38/78
2N6552	2N6555	1	80	80	250	0.05	1	0.5	0.25		75	39/79
NSD104	NSD204	1	80	50	150	0.1	5	0.2	0.1	1.75	60	39/79
NSD105	NSD205	1	80	120	360	0.1	5	0.2	0.1	1.75	60	39/79
NSD106	NSD206	1	100	50	150	0.1	5	0.2	0.1	1.75	60	39/79
2N6553	2N6556	1	100	80	250	0.05	1	0.5	0.25		75	39/79
NSD36		1	150	30	300	0.1	10	0.5	0.1	1.75	10	36
NSD36A		1	200	30	300	0.1	10	0.5	0.1	1.75	10	36
NSD36B		1	250	30	300	0.1	10	0.5	0.1	1.75	10	36
NSD36C		1	300	30	300	0.1	10	0.5	0.1	1.75	10	36

**MEDIUM POWER** (Continued)

Type No.	Case Style	VCBO (V) Min	VCER* VCEO (V) Min	VEBO (V) Min	ICES* ICBO (nA) @ VCB (V) Max	hFE @ IC & VCE			VCE(SAT) (V) Max	VBE(SAT) (V) @ IC (mA)		Cob (pF) Max	fT (MHz) @ IC (mA)		toff (ns) Max	NF (dB) Max	Test Conditions	Process No.
						Min	Max	Min		Max	Min		Max	Min				
2N6734	TO-237 (91)	250	250	6	100 200	25 40	1 200	10 10	2.0				50 200	10				48
2N6735	TO-237 (91)	300	300	6	100 260	25 40	1 200	10 10					50 200	10				48
40321	TO-39		300		100 150	25 200	20 20	10 10				6	30 300	20				48
92PE487	TO-237 (90)	160	160	7	50 100	15 15 30	1 10 30	10 10 10	1.0		30	3						48
92PE488	TO-237 (90)	250	250	7	50 100	15 15 30	1 10 30	10 10 10	1.0		30	3						48
92PE489	TO-237 (90)	300	300	7	50 200	15 15 30	1 10 30	10 10 10	1.0		30	3						48
92PU10	TO-237 (91)		300		100 200	25 40 40	1 10 30	10 10 10	0.75		30	3.5						48
92PU391	TO-237 (91)	200	200	6	100 160	25 40	1 10 10	10 10	2.0	2.0	20	2.5	50	10				48
92PU392	TO-237 (91)	250	250	6	100 200	25 40	1 10 10	10 10	2.0	2.0	20	2.5	50	10				48
92PU393	TO-237 (91)	300	300	6	100 260	25 40	1 10 10	10 10	2.0	2.0	20	2.5	50	10				48
D40N1	TO-202 (55)		250		10 μA 250	20 30 20	4 20 40	10 10 10					50	20				48
D40N2	TO-202 (55)		250		10 μA 250	30 60 30	4 180 40	10 10 10					50	20				48
D40N3	TO-202 (55)		300		10 μA 300	20 30 20	4 90 40	10 10 10					50	20				48
D40N4	TO-202 (55)		300		10 μA 300	30 60 30	4 180 40	10 10 10					50	20				48
MPSA42	TO-92 (92)	300	300	6	100 200	25 40 40	1 10 30	10 10 10	0.5	0.9	20	3	50	10				48

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**NPN Transistors**