

NPN Transistors



MEDIUM POWER (Continued)

Type No.	Case Style	VCBO (V) Min	VCER* VCEO (V) Min	VEBO (V) Min	ICES* ICBO (nA) Max @ VCB (V)	hFE Min Max @ IC (mA) & VCE (V)	VCE(SAT) (V) Max & VBE(SAT) (V) Min Max @ IC (mA)	Cob (pF) Max	fT (MHz) Min Max @ IC (mA)	t _{off} (ns) Max	NF (dB) Max	Test Conditions	Process No.
BD137-6	TO-126	60	60	5	100 30	40 100 150 25 500 2	0.5 500		50 50				38
BD137-10	TO-126	60	60	5	100 30	63 160 150 25 500 2	0.5 500		50 50				38
BD345	TO-126	60	60	5	500 60	60 40 250 50 200 1 1	0.4 200	15	50 50				38
D40D1	TO-202 (55)		30		100* 45	50 150 100 10 1A	0.5 1.5 500						38
D40D2	TO-202 (55)		30		100* 45	120 360 100 20 1A	0.5 1.5 500						38
D40D3	TO-202 (55)		30		100* 45	290 10 100 1A	1.5 500						38
D40D4	TO-202 (55)		46		100* 60	50 150 100 10 1A	0.5 1.5 500						38
D40D5	TO-202 (55)		45		100* 60	120 360 100 10 1A	0.5 1.5 500						38
D40D6	TO-202 (55)		45		100* 60	50 150 100 10 1A	1.0 1.5 500						38
D40D7	TO-202 (55)		60		100* 60	50 150 100 10 1A	1.0 1.5 500						38
D40D8	TO-202 (55)		60		100* 75	120 360 100 10 1A 2 2	1.0 1.5 500						38
D40D10	TO-202 (55)		75		100* 90	50 150 100 10 1A 2 2	1.0 1.5 500						38
D40D11	TO-202 (55)		75		100* 90	120 360 100 10 1A 2 2	1.0 1.5 500						38
D40D13	TO-202 (55)		75		100* 90	50 150 100 2 2	1.0 1.5 500						38
D40D14	TO-202 (55)		75		100* 90	120 360 100 2 2	1.0 1.5 500						38
D40E1	TO-202 (55)		30		100* 40	50 10 100 1A 2 2	1.0 1.3 1A						38
D40E5	TO-202 (55)		60		100* 70	50 10 100 1A 2 2	1.0 1.3 1A						38
D40E7	TO-202 (55)		80		100* 90	50 10 100 1A 2 2	1.0 1.3 1A						38
MJE721	TO-126 (58)		60			40 20 8 150 500 1A 1 1 0.15 0.4 150 500	1.0 1.3 1.5A						38

TO-202 Type Power Transistor Selection Guide

Part Number NPN PNP		I _C (A)	V _{CEO} (V)	h _{FE} Min Max		@ I _C (A) V _{CE} (V)		Max V _{CE} (SAT) (V) @ I _C (A)	P _D (W)	f _T (MHz)	Process (NPN/PNP)
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