



MEDIUM POWER (Continued)

Type No.	Case Style	V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	I _{CES} * I _{CBO} (nA) @ V _{CB} (V) Max	h _{FE} Min Max @ I _C (mA) & V _{CE} (V)	V _{CE} (SAT) (V) Max	V _{BE} (SAT) (V) Min Max @ I _C (mA)	C _{ob} (pF) Max	f _T (MHz) Min Max @ I _C (mA)	t _{off} (ns) Max	NF (dB) Max	Test Conditions	Process No.
NSDU52	TO-202 (55)	60	40	5	100 40	30 50 50 300 150 10 500 10	0.4	1.3 150	20	150 20				77
NSE170	TO-202 (56)		40		100 60	12 30 50 1.5A 500 100 1 1 1	0.9	1.5 1.5A		50 100				77
2N6554	TO-202 (55)	60	60	5	100 40	25 60 80 60 300 250 50 10 500 1 1 1	1.0	1A	18	75 250 100				78
2N6555	TO-202 (55)	60	60	5	100 60	25 60 80 60 300 250 50 10 500 1 1 1	1.0	1A	18	75 250 100				78
2N6556	TO-202 (55)	100	100	5	100 80	25 60 80 60 300 250 50 10 500 1 1 1	1.0	1A	18	75 250 100				78
2N6708	TO-237 (90)	60	45	5	100 60	40 40 25 50 250 500 2 2 2	1.0	1A		50 50				78
2N6709	TO-237 (90)	80	60	5	100 80	40 40 25 50 250 500 2 2 2	1.0	1A		50 50				78
2N6710	TO-237 (90)	100	80	5	100 100	40 40 25 50 250 500 2 2 2	1.0	1A		50 50				78
92PE77A	TO-237 (90)		45		100 60	25 40 40 500 250 50 2 2 2	0.5	500	30	50 200				78
92PE77B	TO-237 (90)		60		100 80	25 40 40 500 250 50 2 2 2	0.5	500	30	50 200				78
92PE77C	TO-232 (90)		80		100 100	25 40 40 500 250 50 2 2 2	0.5	500	30	50 200				78

TEST CONDITIONS:

(1) I_C = 50 mA, V_{CC} = 100V, I_B¹ = I_B² = 5 mA. (2) I_C = 500 μA, V_{CE} = 10V, f = 1 kHz. (3) I_C = 500 mA, V_{CC} = 30V, I_B¹ = I_B² = 50 mA. (4) I_C = 150 mA, V_{CC} = 30V, I_B¹ = I_B² = 15 mA. (5) I_C = 100 μA, V_{CC} = 10V, f = 1 kHz. (6) I_C = 500 mA, V_{CC} = 30V, I_B¹ = I_B² = 50 mA.

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