

NPN Transistors



MEDIUM POWER (Continued)

Type No.	Case Style	V _{CB0} (V) Min	V _{CE0} * (V) Min	V _{EB0} (V) Min	I _{CE0} * (nA) @ V _{CB} (V) Max	h _{FE} Min	h _{FE} Max	I _C (mA) & V _{CE} (V)	V _{CE(SAT)} (V) Max	V _{BE(SAT)} (V) Min	I _C (mA) @ V _{CE} (V) Max	C _{ob} (pF) Max	f _T (MHz) Min	f _T (MHz) Max	I _C (mA) @ V _{CE} (V) Max	t _{off} (ns) Max	NF (dB) Max	Test Conditions	Process No.
NSD104	TO-202 (55)	100	80	7	100 100	20 50 10	150	10 100 1A	5 5 5	0.2	0.9	100	30	60	50				39
NSD105	TO-202 (55)	100	80	7	100 100	10 120 10	360	10 100 1A	5 5 5	0.2	0.9	100	30	60	50				39
NSD106	TO-202 (55)	140	100	7	100 140	20 50 25	150	10 100 500	5 5 5	0.2	0.9	100	30	60	50				39
NSDU06	TO-202 (55)	80	80	4	100 80	80 50 20		50 250 500	1 1 1	0.35		250	30	50	200				39
NSDU07	TO-202 (55)	100	100	4	100 100	80 50 20		50 250 500	1 1 1	0.35		250	30	50	200				39
2N3742	TO-39	300	300	7	200 200	10 15 20 20	200	3 10 30 50	10 10 10 20	0.75	1.0	10	6	60	10				48
2N4926	TO-39	200	200	7	100 100	10 15 20 20	200	3 10 30 50	10 10 10 20				6	30	300	20			48
2N4927	TO-39	250	250	7	100 150	10 15 20 30	200	3 10 30 50	10 10 10 20				6	30	300	20			48
2N6711	TO-237 (90)	160	160	7	50 100	15 15 30	200	1 10 30	10 10 10					40	200	10			48
2N6712	TO-237 (90)	250	250	7	50 200	15 15 30	200	1 10 30	10 10 10					40	200	10			48
2N6713	TO-237 (90)	300	300	7	50 250	15 15 30	200	1 10 30	10 10 10					40	200	10			48
2N6719	TO-237 (91)	300	300	7	100 200	25 40 40	200	1 10 30	10 10 10					30	300	15			48
2N6733	TO-237 (91)	200	200	6	100 160	25 40	200	1 10 10	10 10 10	2.0		20		50	200	10			48

TO-237 Type Power Transistor Selection Guide

Part Number NPN PNP		I _C (A)	V _{CEO} (V)	h _{FE} Min Max		@ I _C (mA) V _{CE} (V)		Max V _{CE} (SAT) (V) @ I _C (mA)	P _D (W)	f _T (MHz)	Process (NPN/PNP)
92PE869	92PE870	0.1	250	50		25	20		*	60	17/76
92PE871	92PE872	0.1	300	50		25	20			60	17/76
2N6711/ 92PE487		0.1	160	30		30	10	1 30		50	48
2N6733/ 92PU391		0.1	200	40		10	10	2 20		50	48
2N6712/ 92PE488		0.1	250	30		30	10	1 30	*	50	48
2N6734/ 92PU392		0.1	250	40		10	10	2 20		50	48
2N6773/ 92PE489		0.1	300	30		30	10	1 30		50	48
2N6735/ 92PU393		0.1	300	40		10	10	2 20	*	50	48
2N6719/ 92PU10		0.1	300	40		30	10	0.75 30		50	48
TN2219		0.5	30	100	300	150	10	0.4 150		250	19
				30		500	10				
TN2218A		0.5	40	40	120	150	10	0.3 150		250	19
				25		500	10				
TN2219A	TN2905	0.5	40	100	300	150	10	0.3/ 0.4 150	*	300	19/63
	TN2904A	0.5	60	40	120	150	10	0.4 150		200	63
				40		500	10				
	TN2905A	0.5	60	100	300	150	10	0.4 150		200	63
				50		500	10				
TN3053	TN4037	1	40	50	250	150	10	1.4 150		100	12/63
2N6737		1	45	60	150	100	1	0.4 300	*	300	25
				40		300					
TN3726		1	50	60	150	100	1	0.4 300		300	25
				40		300					
TN2102	TN4036	1	65	40	120	150	10	0.5/ 0.65 150		60	12/67
				25		500	10				
TN3019		1	80	100	300	150	10	0.2 150	*	100	12
TN3020		1	80	40	120	150	10	0.2 150		100	12
	TN4033	1	80	100	300	100	5	0.15 150		150	67
2N6720/ 92PU36		1	150	30	300	100	10	0.5 100		10	36
2N6721/ 92PU36A		1	200	0		00	10	0.5 00		10	36
2N6722/ 92PU36B		1	250						*	10	36
2N6723/ 92PU36C		1	300							10	36
TN3724		1.5	30	60	150	100	1	0.2 100		300	25
				40		300	1	0.32 300			

*All TO-237: 850 mW, free air (T_A = 25°C)
 2.0W, collector lead at 25°C
 1W-1.2W mounted flush in PC board