

NPN Transistors



MEDIUM POWER (Continued)

Type No.	Case Style	V _{CBO} (V) Min	V _{CER} * V _{CEO} (V) Min	V _{EB0} (V) Min	I _{CES} * I _{CBO} (nA) @ Max	V _{CB} (V)	h _{FE} @ I _C (mA) & V _{CE} (V)			V _{CE(SAT)} (V) & V _{BE(SAT)} (V) @ I _C (mA)			C _{ob} (pF) Max	f _T (MHz) @ I _C (mA)		t _{off} (ns) Max	NF (dB) Max	Test Conditions	Process No.	
							Min	Max	@	Max	Min	Max		@	Min					Max
2N2193A	TO-39	80	50	8	10	60	15		0.1	10	0.25	1.3	150	20	50	50			12	
							30		10	10										
							40	120	150	10										
							30		150	1										
							20		500	10										
15		1A	10																	
2N2195	TO-39	45	25	5	100	30	10		150	1	0.35	1.3	150	20	50	50			12	
							20		150	10										
2N2195A	TO-39	45	25	5	100	30	10		150	1	0.25	1.3	150	20	50	50			12	
							20		150	10										
2N2243	TO-39	120	80	7	10	60	15		0.1	10	0.35	1.3	150	15	50	50			12	
							30		10	10										
							40	120	150	10										
							30		150	1										
							15		500	10										
2N2243A	TO-39	120	80	7	10	60	15		0.1	10	0.25	1.3	150	15	50	50			12	
							30		10	10										
							40	120	150	10										
							30		150	1										
							15		500	10										
2N2270	TO-39	60	45	7	50	60	30		1	10	0.9	1.2	150	15	100	50			12	
							50	200	150	10										
2N3019	TO-39	140	80	7	10	90	50		0.1	10	0.2	1.1	150	12	100	50			12	
							90		10	10										
							100	300	150	10										
							50		500	10										
							15		1A	10										
2N3020	TO-39	140	80	7	10	90	30	100	0.1	10	0.2	1.1	150	12	80	50			12	
							40	120	10	10										
							40	120	150	10										
							30	100	500	10										
							15		1A	10										
2N3053	TO-39	60	40	5	250	30	25		150	2.5	1.4	1.7	150	15	100	50			12	
							50	250	150	10										
2N3107	TO-39	100	60	7	10	60	35		0.1	10	0.25	1.1	150	20	70	50	1000	7	5/6 (See page 1-27)	12
							100	300	150	10										
							40		500	10										
2N3108	TO-39	100	60	7	10	60	20		0.1	10	0.25	1.1	150	20	60	50	600	7	5/6 (See page 1-27)	12
							40	120	150	10										
							25		500	10										