

# NPN Transistors



MEDIUM POWER (Continued)

Datasheet Live

Type No.	Case Style	V <sub>CB0</sub> (V) Min	V <sub>CE0</sub> * (V) Min	V <sub>EB0</sub> (V) Min	I <sub>CE0</sub> * (nA) @ V <sub>CB</sub> (V) Max	h <sub>FE</sub> Min	Max	I <sub>C</sub> (mA) @ V <sub>CE</sub> (V)	V <sub>CE(SAT)</sub> (V) Max	V <sub>BE(SAT)</sub> (V) & Min	I <sub>C</sub> (mA) @ V <sub>CE</sub> (V)	C <sub>ob</sub> (pF) Max	f <sub>T</sub> (MHz)		t <sub>off</sub> (ns) Max	NF (dB) Max	Test Conditions	Process No.	
													Min	Max					
2N2193A	TO-39	80	50	8	10 60	15	30	0.1	10	0.25	1.3	150	20	50	50			12	
						40	120	150	10										
						30		150	1										
						20		500	10										
						15		1A	10										
2N2195	TO-39	45	25	5	100 30	10	20	150	1	0.35	1.3	150	20	50	50			12	
2N2195A	TO-39	45	25	5	100 30	10	20	150	1	0.25	1.3	150	20	50	50			12	
2N2243	TO-39	120	80	7	10 60	15	30	0.1	10	0.35	1.3	150	15	50	50			12	
						40	120	150	10										
						30		150	1										
						15		500	10										
2N2243A	TO-39	120	80	7	10 60	15	30	0.1	10	0.25	1.3	150	15	50	50			12	
						40	120	150	10										
						30		150	1										
						15		500	10										
2N2270	TO-39	60	45	7	50 60	30	50	1	10	0.9	1.2	150	15	100	50			12	
						100	200	150	10										
2N3019	TO-39	140	80	7	10 90	50	90	0.1	10	0.2	1.1	150	12	100	50			12	
						100	300	150	10										
						50		500	10										
						15		1A	10										
2N3020	TO-39	140	80	7	10 90	30	40	0.1	10	0.2	1.1	150	12	80	50			12	
						40	120	10	10										
						40	120	150	10	0.5		500							
						30	100	500	10										
						15		1A	10										
2N3053	TO-39	60	40	5	250 30	25	50	150	2.5	1.4	1.7	150	15	100	50			12	
						100	250	150	10										
2N3107	TO-39	100	60	7	10 60	35	100	0.1	10	0.25	1.1	150	20	70	50	1000	7	5/6 (See page 1-27)	12
						40	300	150	10										
						40		500	10	1.0	2.0	1A							
2N3108	TO-39	100	60	7	10 60	20	40	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	1.0	2.0	1A							