



## MEDIUM POWER AMPS

## NPN Transistors

Type No.	Case Style	V <sub>CB0</sub>	V <sub>CE0</sub>	V <sub>EBO</sub>	I <sub>CBO</sub>	V <sub>CB</sub>	h <sub>FE</sub>		I <sub>C</sub>	V <sub>CE</sub>	V <sub>CE(sat)</sub>	V <sub>BE(sat)</sub>		I <sub>C</sub>	C <sub>ob</sub>	f <sub>T</sub>		I <sub>C</sub>	t <sub>off</sub>	NF	Test Condition	Process No.	
		(V) Min	(V) Min	(V) Min	(nA) @ Max	(V)	Min	Max	@ (mA) &	(V)	(V) Max	& Min	(V) Max	@ (mA)	(pF) Max	(MHz) Min	(MHz) Max	(mA) @	(ns) Max	(dB) Max			
2N2017	TO-39	60	60	8	10 μA	30	35 50 20	10 200 1A	10 10 15	10	2			200									12
2N2102	TO-39	120	65	7	2	60	10 20 35 40 25 10	0.01 0.1 10 150 500 1A	10 10 10 10 10 10	10	0.5	1.1	150	10	60	50							12
2N2192	TO-39	60	40	5	10	30	75 100 15	10 300 1A	10 10 10	10	0.35	1.3	150	20	50	50							12
2N2192A	TO-39	60	40	5	10	30	75 100 15	10 300 1A	10 10 10	10	0.25	1.3	150	20	50	50							12
2N2193	TO-39	80	50	8	10	60	15 40 15	0.1 120 1A	10 10 10	10	0.35	1.3	150	20	50	50							12
2N2193A	TO-39	80	50	8	10	60	15 40 15	0.1 120 1A	10 10 10	10	0.25	1.3	150	20	50	50							12
2N2195	TO-39	45	25	5	100	30	20	150	10	10	0.35	1.3	150	20	50	50							12
2N2195A	TO-39	45	25	5	100	30	20	150	10	10	0.25	1.3	150	20	50	50							12
2N2243	TO-39	120	80	7	10	60	15 40 15	0.1 120 500	10 10 10	10	0.35	1.3	150	15	50	50							12
2N2243A	TO-39	120	80	7	10	60	15 40 15	0.1 120 500	10 10 10	10	0.25	1.3	150	15	50	50							12
2N2270	TO-39	60	45	7	50	60	30 50	1 200 150	10 10	10	0.9	1.2	150	15	100	50							12
2N2657	TO-39	80	60	8	100	60	40 15	120 5A	1A 6	2	0.5 3.0	1.5 2.5	1A 5A	150	20	200	1500				1	34	
2N2658	TO-39	100	80	8	100	60	40 15	120 5A	1A 6	2	0.5 3.0	1.5 2.5	1A 5A	150	20	200	1500				1	34	
2N2890	TO-39	100	80	5			20 30 25	100 90 2A	2 2 5	2	0.5 0.75	1.2 1.3	1A 2A	70	30	200	1500				1	34	
2N2891	TO-39	100	80	5			35 50 40	100 150 2A	2 2 5	2	0.5 0.75	1.2 1.3	1A 2A	70	30	200	1500				1	34	
2N3019	TO-39	140	80	7	10	90	50 100 15 90	0.1 300 1A 10	10 10 10 10	10	0.2 0.5	1.1	150 500	12	100	50							12