

NPN Transistors



SATURATED SWITCHES (Continued)

Type No.	Case Style	V _{CES} * V _{CB0} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	I _{CES} * I _{CB0} (nA) Max	@ V _{CB} (V)	h _{FE} Min	Max	I _C (mA)	& V _{CE} (V)	V _{CE} (SAT) (V) Max	& V _{BE} (SAT) (V) Min	I _C (mA) @ (I _B = I _C /10)	C _{ob} (pF) Max	f _T (MHz) Min	@ I _C (mA) Max	t _(off) (ns) Max	Test Conditions	Process No.	
2N5189	TO-39	60	35	5	500	30	15	35	1A	1	1.0	1.5	1A	12	250	50	70	10	25	
2N6737	TO-237 (EBC)	80	45	6	1.7 μA	60	35	500	1	1	0.52	0.8	1.1	500	10	300	50	60	7	25

TEST CONDITIONS:

(1) V_{CC} = 3V, I_C = 10 mA, I_B¹ = 3 mA, I_B² = 1.5 mA. (2) V_{CC} = 3V, I_C = 10 mA, I_B¹ = 3 mA, I_B² = 1 mA. (3) V_{CC} = 10V, I_C = 300 mA, I_B¹ = I_B² = 30 mA. (4) V_{CC} = 2V, I_C = 30 mA, I_B¹ = I_B² = 3 mA. (5) V_{CC} = 25V, I_C = 300 mA, I_B¹ = I_B² = 30 mA. (6) V_{CC} = 25V, I_C = 500 mA, I_B¹ = I_B² = 50 mA. (7) V_{CC} = 30V, I_C = 500 mA, I_B¹ = I_B² = 50 mA. (8) V_{CC} = 30V, I_C = 1A, I_B¹ = I_B² = 100 mA. (9) V_{CC} = 3V, I_C = 10 mA, I_B¹ = I_B² = 1 mA. (10) V_{CC} = 10.7V, I_C = 1A, I_B¹ = I_B² = 100 mA. (11) V_{CC} = 3V, I_C = 10 mA, I_B¹ = I_B² = 3 mA. (12) V_{CC} = 3V, I_C = 10 mA, I_B¹ = I_B² = 3.3 mA.



RF AMPS AND OSCILLATORS

Type No.	Case Style	V _{CES} * V _{CB0} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	I _{CB0} (nA) @ Max	V _{CB} (V)	h _{FE} Min	Max	I _C (mA) @	V _{CE} (V)	V _{CE} (SAT) (V) & V _{BE} (SAT) (V) Min	I _C (mA) @	C _{ob} /C _{re} (pF) Min	Max	f _T (MHz) Min	Max	I _C (mA) @	NF (dB) Max	Freq (MHz)	Process No.
2N2857	TO-72	30	15	2.5	10	15	30	150	3	1			1		1000	1900	5	4.5	450	42
2N3478	TO-72	30	15	2	20	1	25	150	2	8			1		750	1600	5	4.5	200	42
2N3600	TO-72	30	15	3	10	15	20	150	3	1			1		850	1500	5	4.5	200	42
2N3932	TO-72	30	20	2.5	10	15	40	150	2	8			0.55		750	1600	2	4.5	200	42
2N3933	TO-72	40	30	2.5	10	15	60	200	2	8			0.55		750	1600	2	4	200	42
2N4259	TO-72	40	30	2.5	10	15	60	250	2	8			0.55		750	1600	2	5	450	42
2N5179	TO-72	20	12	2.5	20	15	25	250	3	1	0.4	1.0	10	1	900	2000	5	4.5	200	42
2N5180	TO-72	30	15	2	500	8	20	200	2	8			1		650	1700	2			42
40235	TO-72	35		3	1 μA	35	40	170	1	6			0.65							42
40236	TO-72	35		3	1 μA	35	40	275	1	6			0.65							42
40237	TO-72	35		3	1 μA	35	27	275	1	6			0.8							42
40238	TO-72	35		3	1 μA	35	40	170	1	6			0.65							42
40239	TO-72	35		3	1 μA	35	27	100	1	6			0.65							42