



SATURATED SWITCHES (Continued)

Type No.	Case Style	V _{CES} * V _{CB0} (V) Min	V _{CEO} (V) Min	V _{EB0} (V) Min	I _{CES} * I _{CB0} (nA) @ V _{CB} (V) Max	h _{FE} Min	Max	I _C (mA) & V _{CE} (V)	V _{CE(SAT)} (V) Max	& V _{BE(SAT)} (V) Min	Max	I _C (mA) (I _B = $\frac{I_C}{10}$)	C _{ob} (pF) Max	f _T (MHz) Min	Max	I _C (mA) @	t _(off) (ns) Max	Test Conditions	Process No.
2N5769	TO-92 (92)	40	15	4.5	400 20	20 30 40	100 30 10	1 0.4 0.35	0.2 0.25 0.5	0.7 1.5 1.6	0.85 30 100	10	4	500		10	18	1	21
2N5772	TO-92 (92)	40	15	5	500 20	15 25 30	300 100 30	1 0.5 0.4	0.2 0.28 0.5	0.75 1.2 1.7	0.95 100 300	30	5	350		30	28	3	21
MPS706	TO-92 (92)	15	15	3	500 15	20	10	1	0.6	0.9	10	10	6	200		10	75	11	21
MPS834	TO-92 (92)	40		5	500 20	25	10	1	0.25 0.4	0.9	10 50	10	4	350		10	30	2	21
MPS2369	TO-92 (92)	40*	15	4.5	400 20	20 40	100 120	2 1	0.25	0.7	0.85 10	10	4	500		10	18	7	21
MPS2713	TO-92 (92)	18	15	5	500 18	30	90	2 4.5	0.3	1.3	50	50							21
MPS2714	TO-92 (92)	18	15	5	500 18	75	225	2 4.5	0.3	0.6	1.3 50	50							21
MPS3646	TO-92 (92)	Same as PN3646, see page 1-4 for explanation																	21
PN2369	TO-92 (92)	40*	15	4.5	400 20	20 40	100 120	2 1	0.25	0.7	0.85 10	10	4	500		10	18	1	21
PN2369A	TO-92 (92)	40*	15	4.5	30 20	20 30 40 40	100 30 10 10	1 0.4 1 0.35	0.2 0.2 0.5	0.7 1.15 1.6	0.85 30 100	10	4	500		10	18	1	21
PN4274	TO-92 (92)	30*	12	4.5	500 20	18 30 35	100 30 120	1 0.4 1	0.2 0.25 0.5	0.7 1.15 1.6	0.85 10 30 100	10	4	400		10	12	12	21
PN4275	TO-92 (92)	40*	15	4.5	500 20	18 30 35	100 30 120	1 0.4 1	0.2 0.25 0.5	0.72 1.15 1.6	0.85 10 30 100	10	4	400		10	12	12	21
PN5134	TO-92 (92)	20*	10	3.5	100 15	15 20	30 150	0.4 1	0.25	0.7	0.9 10	10	4	250		10	18	12	21
2N708	TO-52	40	15	5	25 20	30 15	120 10	1 0.5	0.4	0.72	0.8 10	10	6	300		10			22

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.