



## SATURATED SWITCHES (Cont.)

## NPN Transistors

Type No.	Case Style	V <sub>CB0</sub>	V <sub>CE0</sub>	V <sub>EB0</sub>	I <sub>CB0</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>	t <sub>off</sub>	NF	Test Condition	Process No.
		(V) Min	(V) Min	(V) Min	(nA) Max	(V) Max	Min	Max	@ (mA)	& (V)	(mA)	(V) Max	& (V) Min	Max (mA)	(pF) Max	(MHz) Min Max	(ns) Max	(dB) Max		
2N3014	TO-52	40	20	5	300 I <sub>CEs</sub>	20	30 25 25	120	30 10 100	0.4 0.4 1	0.18 0.18 0.35	0.8 0.95 1.2	10 30 100	5	350	30	25		10	28
2N3015	TO-5 (Lo-Profile)	60	30	5	200 I <sub>CEs</sub>	30	30 10	120	150 300	10 0.7	0.4 1.0	1.2 1.6	150 500	8	250	50	60		2	25
2N3252	TO-5 (Lo-Profile)	60	30	5	500	40	30 30 25	90	150 500 1A	1 1 5	0.3 0.5 1.0	1.0 1.3 1.8	150 500 100	12	200	10	70 <sup>†</sup>		4	25
2N3253	TO-5 (Lo-Profile)	75	40	5	500	60	25 25 20	75	150 375 750	1 1 5	0.35 0.6 1.2	1.0 0.7 1.8	150 500 1A	12	175	50	70 <sup>†</sup>		4	25
2N3444	TO-5 (Lo-Profile)	80	50	5	500	60	20 20 15	60	150 500 1A	1 1 5	0.35 0.6 1.2	1.0 1.3 1.8	150 500 1A	12	150	50	70 <sup>†</sup>		4	25
2N3605	TO-92(74)		14		500	18	30		10	1.0	0.25	0.85	10	6	300	10	45		9	21
2N3606	TO-92(74)		14		500	18	30		10	1.0	0.25	0.85	10	6	300	10	60		9	21
2N3607	TO-92(74)		14		500	18	30		10	1.0	0.25	0.85	10	6	300	10	70		9	21
2N3646	TO-106	40	15	5	500	20	30 25 15	120	30 100 300	0.4 0.5 1	0.2 0.28 0.5	0.75 1.2 1.7	0.95 100 300	5	350	30	28		5	22
2N3722	TO-5 (Lo-Profile)	80	60	6	500 I <sub>CEs</sub>	40	25 40 20 15 12		10 100 300 500 800	1 1 2 3 5	0.25 0.22 0.37 0.5 2	0.75 0.85 1.1 1.2 1.5	10 100 300 500 800	10	300	50	100		4	24
2N3723	TO-5 (Lo-Profile)	100	80	6	500 I <sub>CEs</sub>	50	25 40 15 15 12	150	100 100 300 500 800	1 1 2 3 5	0.25 0.28 0.44 0.75	0.75 0.85 1.1 0.86	10 100 300 500	9	300	50	130		4	24
2N3724	TO-5 (Lo-Profile)	50	30	6	1.7 μA	40	60 40 30 30 25	150	100 300 1A 10 800	1 1 5 1 2	0.2 0.25 0.32 0.42 0.65	0.86 1.0 1.1 1.2 1.5	100 10 300 500 800	12	300	50	60		4	25
2N3724A	TO-5 (Lo-Profile)	50	30	6	500	40	30 60 40 35 30 30 25	150	100 100 300 500 800 1A 1.5A	1 1 1 2 2 5 5	0.25 0.2 0.32 0.42 0.65 0.75	0.76 0.86 1.1 1.2 1.3 1.4	10 100 300 500 800 1A	12	300	50	60 50		4 6	25
2N3725	TO-5 (Lo-Profile)	80	50	6	1.7 μA	60	60 40 35 30 20 25	150	100 300 500 10 800 1A	1 1 1 1 2 5	0.25 0.4 0.52 0.8 0.95	0.76 1.1 1.2 1.5 1.7	10 300 500 800 1A	10	300	50	60		4	25