



SATURATED SWITCHES (Continued)

Type No.	Case Style	V _{CES} * V _{CBO} (V) Min	V _{CEO} (V) Min	V _{EBO} (V) Min	I _{CES} * I _{CBO} (nA) @ V _{CB} (V) Max	hFE @ I _C (mA) & V _{CE} (V)	V _{CE} (SAT) (V) & V _{BE} (SAT) (V) @ I _C (mA) (I _B = I _C /10)	C _{ob} (pF) Max	f _T (MHz) @ I _C (mA)	t _(off) (ns) Max	Test Conditions	Process No.
2N3725A	TO-39	80	50	6	500 60	20 1.5A 5 25 1A 5 25 800 2 35 500 1 40 300 1 60 150 100 1 30 10 1	0.4 1.1 300 0.52 1.2 500 0.8 1.3 800 0.9 1.4 1A	10	50	50	8	25
DH3724CD	Ceramic DIP (40)	50*	36	60	1.7 μA 40	30 1A 5 35 500 1 60 150 100 1	0.75 1.7 500 0.45 1.2 1A	12	300 50	60	7	25
DH3724CN	Molded DIP (39)	Electrical same as DH3724CD										25
DH3725CD	Ceramic DIP (40)	80*	50	6	1.7 μA 60	25 1A 5 35 500 1 60 150 100 1	0.95 1.7 500 0.52 1.2 1A	10	250 50	60	7	25
DH3725CN	Molded DIP (39)	Electrical same as DH3725CD										25
2N4013	TO-18	50	30	6	1.7 μA 40	30 1A 5 25 800 2 35 500 1 40 300 1 60 150 100 1 30 10 1	0.25 0.76 10 0.2 0.86 100 0.32 1.1 300 0.42 1.2 500 0.65 1.5 800 0.75 1.7 1A	12	300 50	60	7	25
2N4014	TO-18	80	50	6	1.7 μA 60	25 1A 5 20 800 2 35 500 1 40 300 1 60 150 100 1 30 10 1	0.25 0.76 10 0.26 0.86 100 0.4 1.1 300 0.25 1.2 500 0.8 1.5 800 0.9 1.7 1A	10	300 50	60	7	25
2N4047	TO-39	80	50	6	1.7 μA 60	15 1A 5 15 800 2 20 500 1 30 300 1 40 150 100 1 20 10 1	0.4 1.1 300 0.52 0.9 1.2 500 0.8 1.5 800 0.95 1.7 1A	10	250 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.