

# FAIRCHILD LOGIC/CONNECTION DIAGRAMS

DIGITAL - TTL		
OUTPUT CHANGES ON POSITIVE GOING EDGE	MASTER/SLAVE	EDGE-TRIGGERED
	<p><b>D50 9000</b></p> <p>Vcc = Pin 14 GND = Pin 7</p> <p><b>D51 9001</b></p> <p>Vcc = Pin 14 GND = Pin 7</p>	<p><b>D54 54/7470</b></p> <p>Vcc = Pin 14 GND = Pin 7</p>
OUTPUT CHANGES ON NEGATIVE GOING EDGE	<p><b>D52a 54H/74H71</b></p> <p>Vcc = Pin 14 GND = Pin 7</p> <p><b>D53a 54/7472 54H/74H72</b></p> <p>Vcc = Pin 14 GND = Pin 7</p>	<p><b>D52b 54H/74H101</b></p> <p>Vcc = Pin 14 GND = Pin 7</p> <p><b>D53b 54H/74H102</b></p> <p>Vcc = Pin 14 GND = Pin 7</p>

# FAIRCHILD DIGITAL

## TTL

### TTL SINGLE AND DUAL FLIP-FLOPS

Item	Function	DEVICE NO.	Inputs	Clock Edge	Direct Set	Direct Clear	Clock Frequency MHz (Typ)	Clock to Output Delay-ns (Typ)	Power Dissipation mW (Typ)	Logic/Connection Diagram	Package(s)
1	Single JK	9000	3J, 3K, JK		X	X	20	16	100	D50	3I, 6A
2	Single JK	9001	2J, 2K, J, K, JK		X	X	50	16	115	D51	3I, 6A
3	Single JK	54H/74H71	(AOI) (2+2)J, (2+2)K		X	—	30	22	95	D52a	3I, 6A, 9A
4	Single JK	54H/74H101	(AOI) (2+2)J, (2+2)K		X	—	50	16	100	D52b	3I, 6A, 9A
5	Single JK	54/7472	3J, 3K		X	X	20	25	50	D53a	3I, 6A, 9A
6	Single JK	54H/74H72	3J, 3K		X	X	30	22	80	D53a	3I, 6A, 9A
7	Single JK	54H/74H102	3J, 3K		X	X	50	16	100	D53b	3I, 6A, 9A
8	Single JK	54/7470	2J, 2K, $\bar{J}$ , $\bar{K}$		X	X	35	27	65	D54	3I, 6A, 9A
9	Dual D	54/7474	D		X	X	25	20	85	D61	3I, 6A, 9A
10	Dual D	54H/74H74	D		X	X	43	13	150	D61	3I, 6A, 9A
11	Dual D	54S/74S74	D		X	X	100	7.0	150	D61	3I, 6A, 9A
12	Dual D	54LS/74LS74	D		X	X	50	15	20	D61	3I, 6A, 9A
13	Dual JK	9020	J, K, $\bar{J}$ , $\bar{K}$ , JK		—	X	50	16	210	D55	4L, 6B
14	Dual JK	9022	J, $\bar{K}$ , JK		X	X	15	16	210	D56	4L, 6B
15	Dual JK	54/7473	J, K		—	X	20	25	100	D57a	3I, 6A, 9A
16	Dual JK	54/74107	J, K		—	X	20	25	100	D57a	3I, 6A, 9A
17	Dual JK	54H/74H73	J, K		—	X	30	22	160	D57a	3I, 6A, 9A
18	Dual JK	54H/74H103	J, K		—	X	50	16	200	D57b	3I, 6A, 9A
19	Dual JK	54S/74S113	J, K		X	—	125	5.0	150	D63	3I, 6A, 9A
20	Dual JK	54LS/74LS113	J, K		X	—	60	12	20	D63	3I, 6A, 9A
21	Dual JK	54/7476	J, K		X	X	20	25	100	D58	4L, 6B, 9B
22	Dual JK	54H/74H76	J, K		X	X	30	22	150	D58	4L, 6B, 9B
23	Dual JK	54H/74H106	J, K		X	X	50	16	200	D58	4L, 6B, 9B
24	Dual JK	54S/74S112	J, K		X	X	125	5.0	150	D62	4L, 6B, 9B
25	Dual JK	54LS/74LS112	J, K		X	X	60	12	20	D62	4L, 6B, 9B
26	Dual JK	54H/74H78	J, K		X	X	30	22	160	D59a	3I, 6A, 9A
27	Dual JK	54H/74H108	J, K		X	X	50	16	200	D59b	3I, 6A, 9A