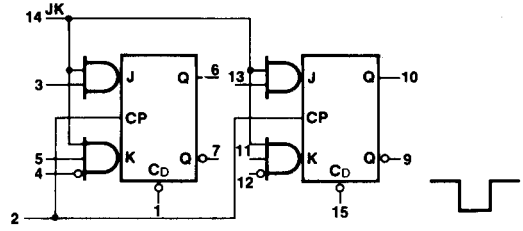
DIGITAL - TTL

OUTPUT CHANGES ON POSITIVE GOING EDGE

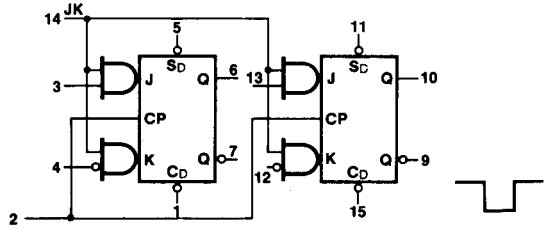
MASTER/SLAVE

D55
9020



V_{CC} = Pin 16
GND = Pin 8

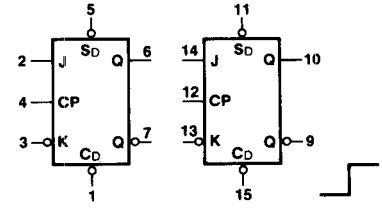
D56
9022



V_{CC} = Pin 16
GND = Pin 8

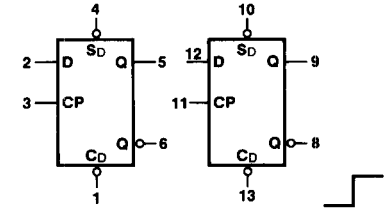
EDGE-TRIGGERED

D60
9024, 54/74109, 54S/74S109, 54LS/74LS109



V_{CC} = Pin 16
GND = Pin 8

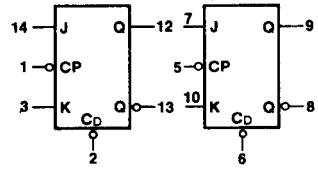
D61
54/7474, 54H/74H74, 54S/74S74, 54LS/74LS74



V_{CC} = Pin 14
GND = Pin 7

OUTPUT CHANGES ON NEGATIVE GOING EDGE

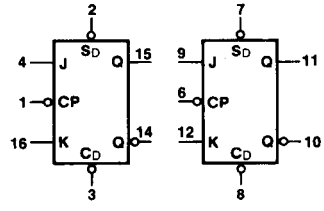
D57a
54/7473, 54H/74H73, 54LS/74LS73
***54/74107, *54LS/74LS107**



V_{CC} = Pin 4
GND = Pin 11

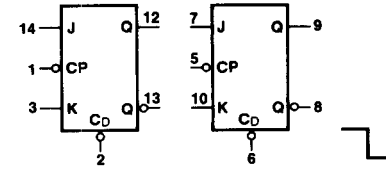
*V_{CC} = Pin 14
GND = Pin 7
Pins are rotated

D58
54/7476, 54H/74H76, 54LS/74LS76



V_{CC} = Pin 5
GND = Pin 13

D57b
54H/74H103



V_{CC} = Pin 4
GND = Pin 11

13

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, $\overline{J}$, $\overline{K}$		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, $\overline{J}$, $\overline{K}$, JK		—	X	50	16	210	D55	4L, 6B
14	Dual JK	**9022**	J, $\overline{K}$, 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