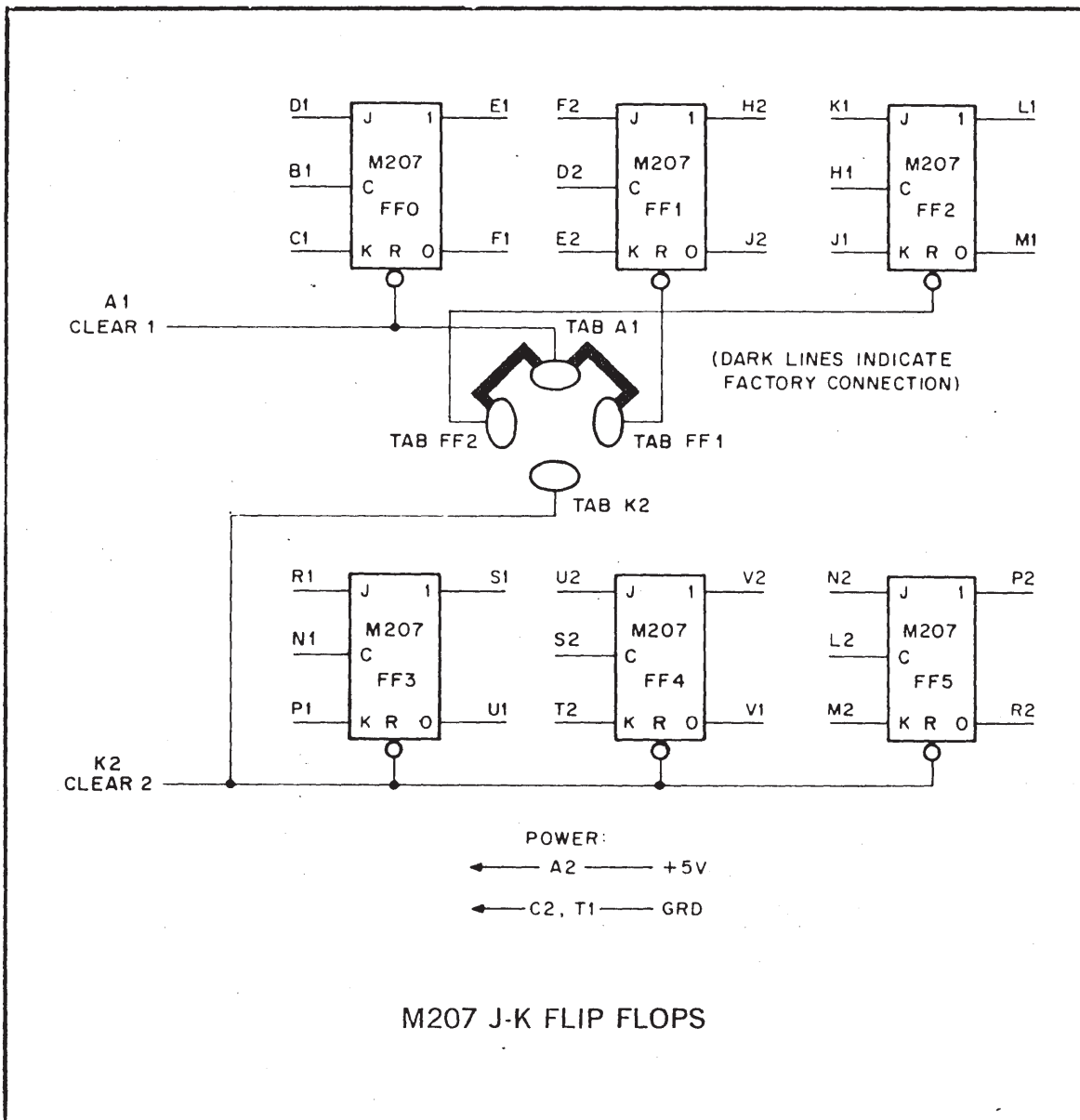


GENERAL-PURPOSE FLIP-FLOP

TYPE M207

M

SERIES



The M207 contains six J-K type flip-flops which can be used as buffers, control flip-flops, shift registers, and counters. A truth table for clocked set and reset conditions appears below. Note that when the J and K inputs are both high, the flip-flop complements on each clock pulse.

STARTING CONDITION (OUTPUT)		INPUT CONDITION		RESULT AT END OF STANDARD CLOCK PULSE (OUTPUT)	
1	0	J	K	1	0
L	H	L	L	No change	
		L	H	No change	
		H	L	H	L
		H	H	H	L
H	L	L	L	No change	
		L	H	L	H
		H	L	No change	
		H	H	L	H

Application of a low level to an R input for at least 25 nsec resets the flip-flop unconditionally. Two CLEAR inputs are provided, with jumper terminals for optional clearing in groups of 3 and 3 (standard), 4 and 2, 5 and 1, or 6 and 0.

J and K inputs must be stable during the leading-edge threshold of a standard clock input and must remain stable during the positive state of the clock. Data transferred into the flip-flop will be stable at the output within 30 nsec (typical) of the clock pulse trailing edge threshold.

Provision is made on the printed circuit board for changing the configuration of the two CLEAR lines to the flip-flop. All M207 modules are supplied with the 3-3 configuration, but the grouping can be changed as follows:

CONFIGURATION	CLEAR 1 (A1)	CLEAR 2 (K2)	DELETE JUMPER	ADD JUMPER
3-3	FF0, 1, & 2	FF3, 4, & 5		
4-2	FF0 & 1	FF2, 3, 4, & 5	A1 to FF2	K2 to FF2
5-1	FF0	FF1, 2, 3, 4, & 5	A1 to FF2 A1 to FF1	K2 to FF2 K2 to FF1

Inputs: J or K inputs present 1 unit load each.
C inputs present 2 unit loads each.
CLEAR lines present 2 unit loads per connected flip-flop.

Outputs: Each output is capable of driving 10 unit loads.

Power: +5 volts, 48 ma (avg)

M207 — \$42.00