

DUAL DECADE COUNTER

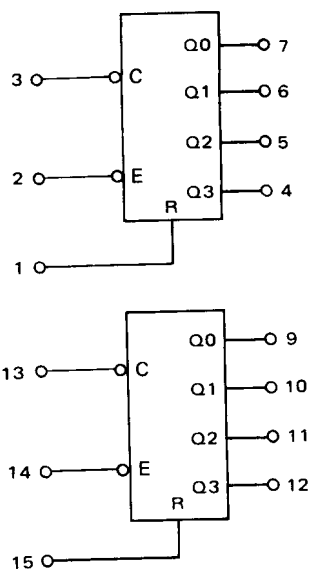
MC4352

MC4052

DUAL HEXADECIMAL COUNTER

MC4353

MC4053



VCC = Pin 16
Gnd = Pin 8

Total Power Dissipation = 350 mW typ/pkg
Maximum Toggle Frequency = 40 MHz typ

The MC4352/4052 and MC4353/4053 consist of two independent up counters. The counters advance on the negative edge of the clock when the enable input is low. The count is held when the enable input is high. The enable input should not be taken to the high level while the clock is high, as erroneous triggering can result. A high level on the reset input places the counter in the 0000 state, overriding the clock and enable inputs. As charge control steering is utilized in this design, capacitive loading on the outputs should be kept at a minimum.

DataSheet4U.com

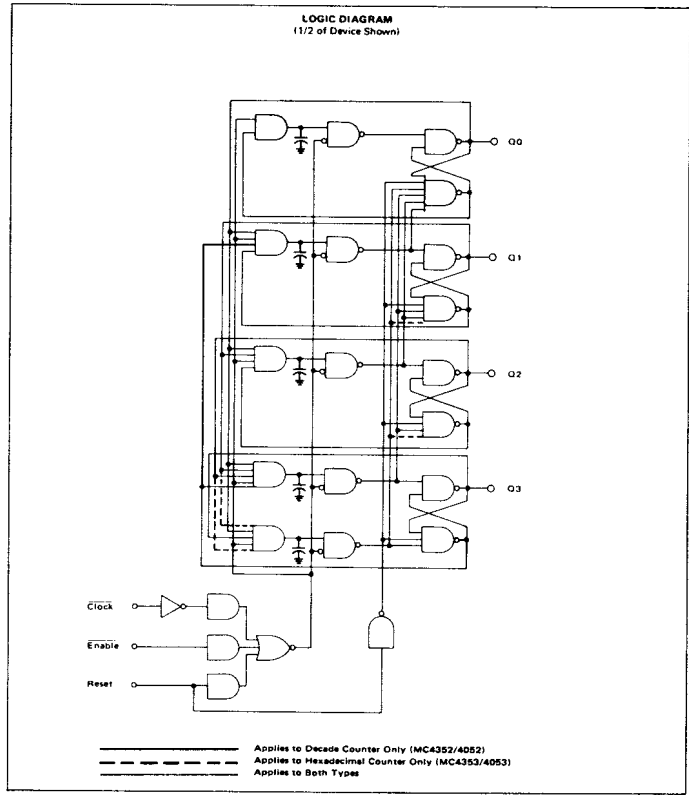
FUNCTIONAL TRUTH TABLE

INPUT			MC4352/4052 OUTPUT				MC4353/4053 OUTPUT			
R	\bar{E}	\bar{C}	Q3	Q2	Q1	Q0	Q3	Q2	Q1	Q0
1	X	X	0	0	0	0	0	0	0	0
0	1	P	0	0	0	0	0	0	0	0
0	0	P1	0	0	0	1	0	0	0	1
0	0	P2	0	0	1	0	0	0	1	0
0	0	P3	0	0	1	1	0	0	1	1
0	0	P4	0	1	0	0	0	1	0	0
0	0	P5	0	1	0	1	0	1	0	1
0	0	P6	0	1	1	0	0	1	1	0
0	0	P7	0	1	1	1	0	1	1	1
0	0	P8	1	0	0	0	1	0	0	0
0	0	P9	1	0	0	1	1	0	0	1
0	0	P10	0	0	0	0	1	0	1	0
0	0	P11	0	0	0	1	1	0	1	1
0	0	P12	Above Sequence Repeats				1	1	0	0
0	0	P13					1	1	0	1
0	0	P14					1	1	1	0
0	0	P15					1	1	1	1
0	0	P16					0	0	0	0
0	0	P17	0	0	0	1	0	0	1	

P = any number of pulses may be applied
P_n = n pulses on the Clock input
X = Don't Care



MC4353 • MC4353
MC4052 • MC4053 (CONTINUED)



FUNCTIONAL DIAGRAMS

