NBCD ADDER

MC4356 MC4056

Input Loading Factor: C_{in} = 5 A,B = 2

Output Loading Factor = 10

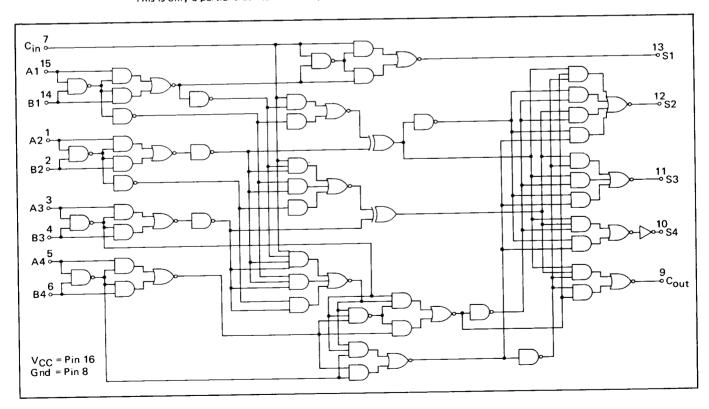
Total Power Dissipation = 300 mW typ/pkg Propagation Delay Time = 30 ns typ The MC4356/4056 adds two 4-bit numbers in NBCD (Natural Binary Coded Decimal) format. Sum and Carry outputs are generated, also in NBCD code.

NBCD adders are used in such applications as machine controls (to avoid conversion of NBCD data to binary numbers), and in phase-locked loops together with programmable counters. This adder can also subtract, when coupled to a 9's complement logic function.

TRUTH TABLE*

INPUT									OUTPUT				
A4	А3	A2	Α1	В4	В3	B2	В1	Cin	Cout	S4	S3	S2	S1
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	o	0	0	0	0	1	0	0	0	0	1
o	1	0	0	0	1	o	0	0	0	1	0	0	0
0	1	0	0	0	1	0	0	1	0	1	0	0	1
├	1	1	1	0	1	0	0	0	1	0	0	0	1
ŏ	1	1	1	0	1	0	0	1	1	0	0	1	0
1	0	0	1	1	0	0	1	1	1	1	0	0	1
1 ;	٥	٥	1	0	0	0	0	1	1	0	0	0	0
1	o	0	1	0	o 🗆	ataS	neet4	J. c oi	m 1	0	0	0	0

*This is only a partial truth table and is provided to illustrate the logic function of this device.



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