CMOS AND GATES

4081B - Quad 2-Input AND 4082B - Dual 4-Input AND 4073B - Triple 3-Input AND

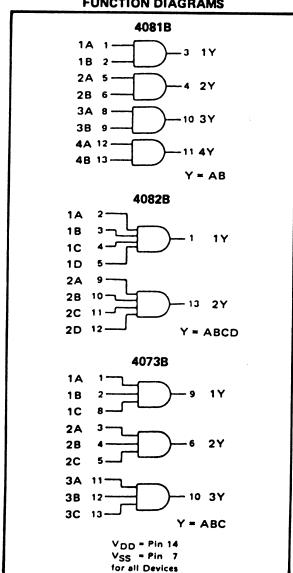
FEATURES

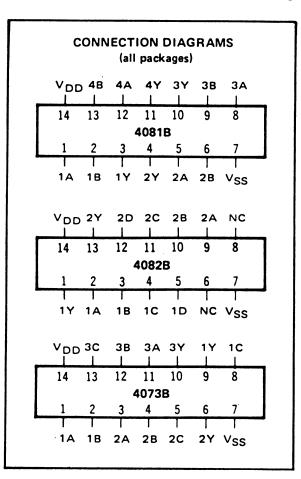
- **Buffered Outputs**
- **Diode Protection on all Inputs**
- Fully "B"-Series Compatible

TRUTH TABLE

Inputs	Output
1 1 · · · 1	1
All other combinations	0

FUNCTION DIAGRAMS





RECOMMENDED OPERATING CONDITIONS

For maximum reliability:

DC Supply Voltage	VDD - VSS	3 to 15	Vdc
Operating Temperatur	e T _A		
С	/	-55 to +125	οС
Ε		-40 to +85	oC

ELECTRICAL CHARACTERISTICS

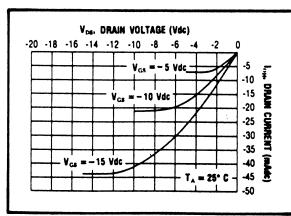
STATIC CHARACTERISTICS '

PARAMETER		V _{DD}	CONDITIONS	T _{LOW} ²		+25°C			THIGH ²		Units
		(Vdc)	Min.	Max.	Min.	Тур.	Max.	Min.	Max.	00	
QUIESCENT DEVICE CURRENT	loo	5	V _{IN} ≠ V _{es} or V _{DO}	_	0.05	_	0.0005	0.05	_	1.5	μAdc
		10 15	All valid input combinations	-	0.10 0.20	1 -	0.001 0.002	0.10 0.20	-	3.0 6.0	<i>μ</i> , ισε

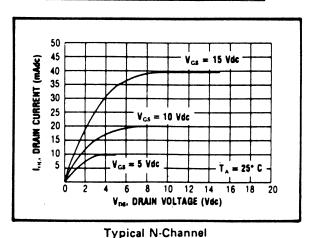
NOTES: 1 Remaining Static Electrical Characteristics are listed under "4000B Series Family Specifications".

T_{LOW} = -55°C for C = -40°C for E T_{HIGH} = +125°C for C = + 85°C for E

DYNAMIC CHARACTERISTICS (C _L = 50pF, T _A = 25°C)							
PARAMETER		V _{DD} (Vdc)	Min.	Тур.	Max.	Units	
PROPAGATION DELAY TIME	tpLH, tpHL	5 10 15	-	120 60 45	240 120 90	ns	
OUTPUT TRANSITION TIME	t _{TLH} , t _{THL}	5 10 15	-	100 50 40	200 100 80	ns	



Typical P-Channel Source Current Characteristics LOGIC DIAGRAMS



Sink Current Characteristics SCHEMATIC DIAGRAM - 4082B (1 of 2 gates)

