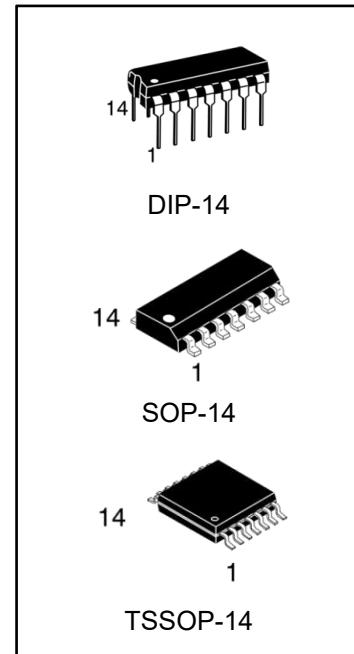


Cmos And Gate High-Voltage Types

Features

CD4073B and CD4082B AND Gates provide the system designer with direct implementation of the AND function and supplement the existing family of CMOS gates.

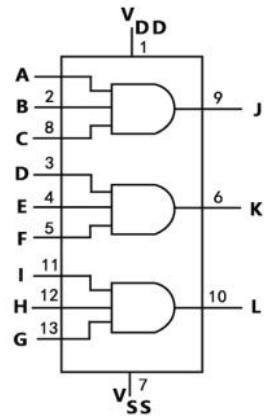
- Medium-Speed Operation - $T_{PLH}, T_{PHL} = 60\text{ns}$ (typ.) at $VDD = 10\text{V}$
- 100% tested for quiescent current at 20V Maximum input current of $1\mu\text{A}$ at 18 V over full package-temperature range, 100 nA at 18 V and 25°C
- Noise margin (full package-temperature range)
 - 1V at $VDD=5\text{V}$
 - 2V at $VDD=10\text{V}$
 - 2.5V at $VDD=15\text{V}$
- Standardized, symmetrical output characteristics
- 5V, 10V and 15V parametric ratings
- Meets all requirements of JEDEC Tentative Standard No.13B, Standard Specifications



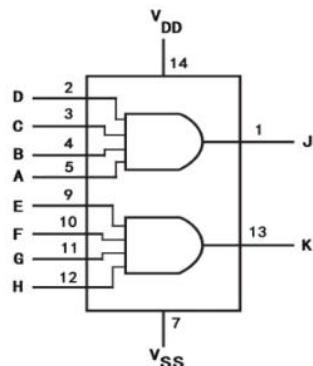
Ordering Information

DEVICE	PACKAGE TYPE	MARKING	PACKING	PACKING QTY
CD4073BE/ CD4073BN	DIP-14	CD4073B	TUBE	1000pcs/box
CD4073BM/TR	SOP-14	CD4073B	REEL	2500pcs/reel
CD4073BMT/TR	TSSOP-14	CD4073B	REEL	2500pcs/reel
CD4082BE/ CD4082BN	DIP-14	CD4082B	TUBE	1000pcs/box
CD4082BM/TR	SOP-14	CD4082B	REEL	2500pcs/reel
CD4082BMT/TR	TSSOP-14	CD4082B	REEL	2500pcs/reel

Logic Diagram



CD4073B
FUNCTIONAL DIAGRAM



CD4082B
FUNCTIONAL DIAGRAM

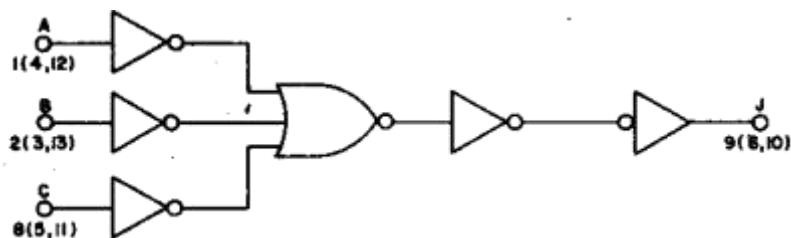
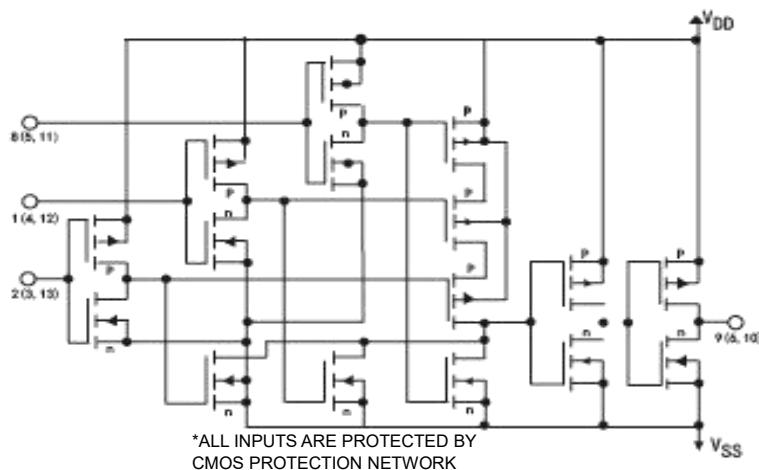


Fig.1 - Logic diagram for CD4073B(1 of 3 identical Gates).

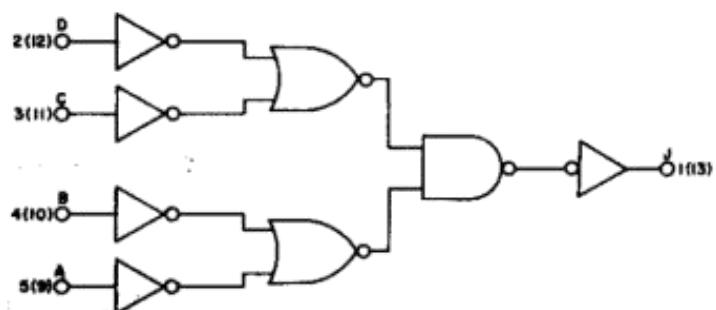
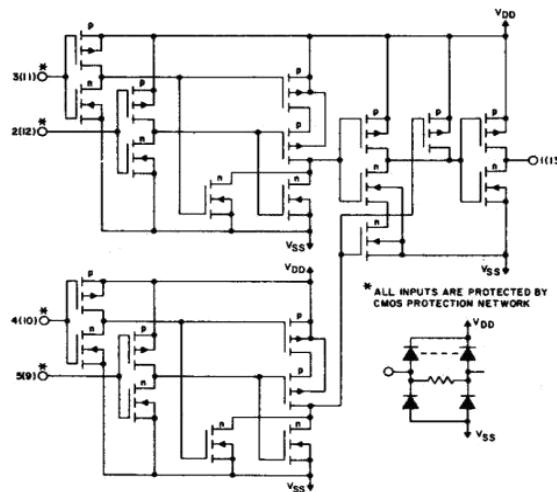


Fig.2 - Logic diagram for CD4082B (1 of 2 identical gates).

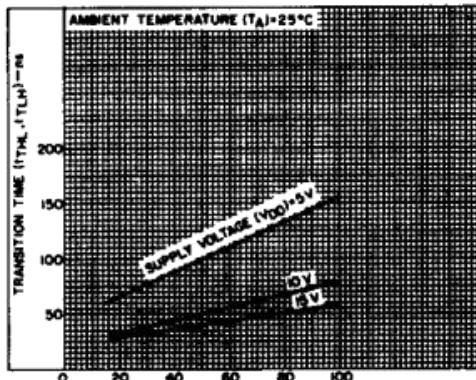


Fig.9 -Typical transition time as a function of load capacitance

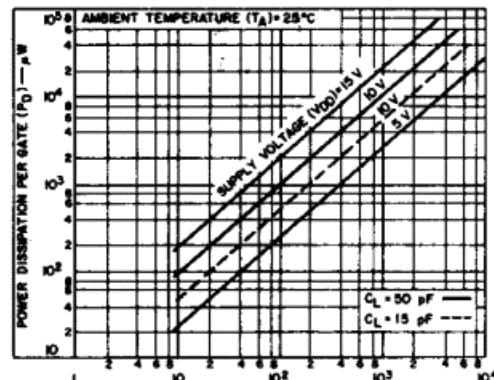


Fig.10 -Typical dynamic power diss i- Ration per gate as a function

Terminal Assignments

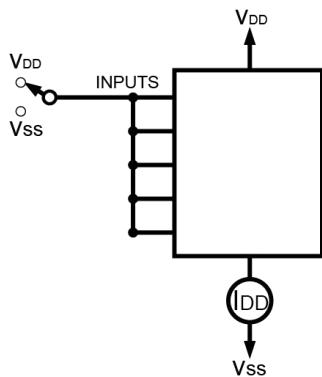


Fig.11 - Quiescent device current test circuit.

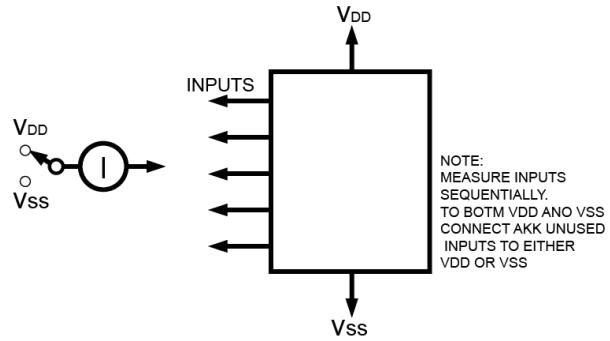


Fig.12 - Input current test circuit.

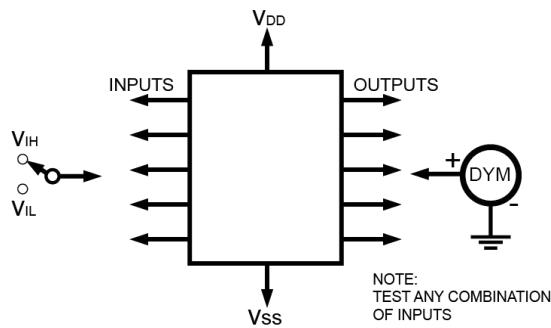
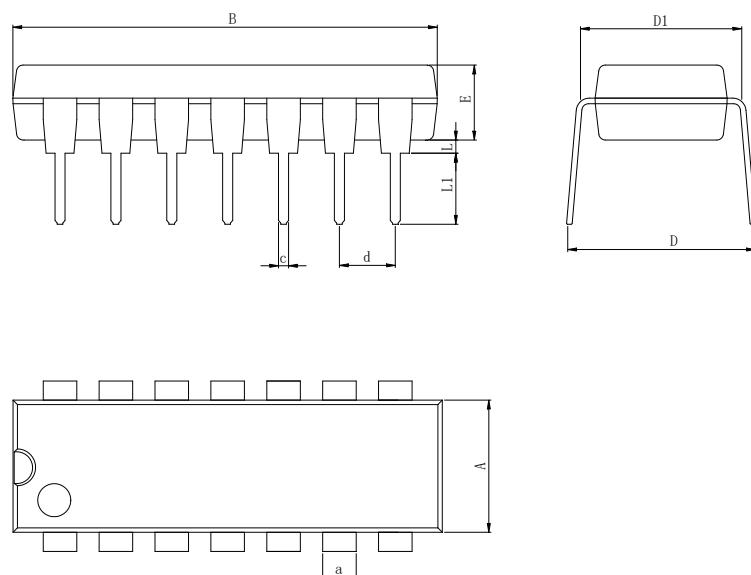


Fig.13 - Input-voltage test circuit.

Physical Dimensions

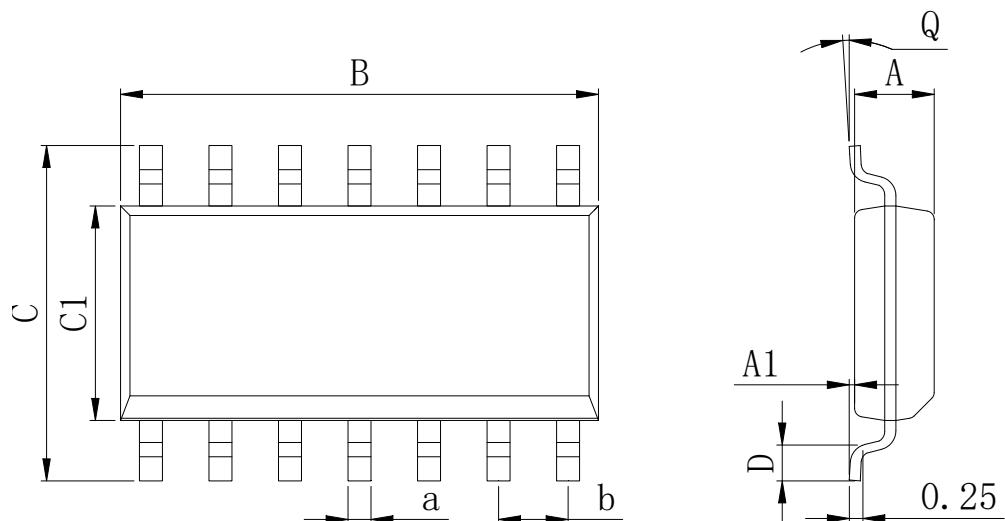
DIP-14



Dimensions In Millimeters(DIP-14)

Symbol:	A	B	D	D1	E	L	L1	a	c	d
Min:	6.10	18.94	8.10	7.42	3.10	0.50	3.00	1.50	0.40	2.54 BSC
Max:	6.68	19.56	10.9	7.82	3.55	0.70	3.60	1.55	0.50	

SOP-14

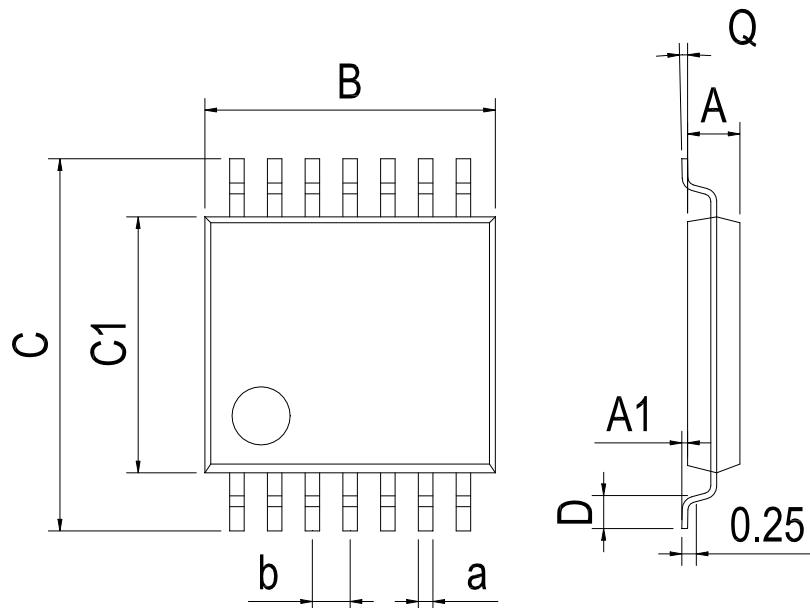


Dimensions In Millimeters(SOP-14)

Symbol:	A	A1	B	C	C1	D	Q	a	b
Min:	1.35	0.05	8.55	5.80	3.80	0.40	0°	0.35	1.27 BSC
Max:	1.55	0.20	8.75	6.20	4.00	0.80	8°	0.45	

Physical Dimensions

TSSOP-14



Dimensions In Millimeters(TSSOP-14)

Symbol:	A	A1	B	C	C1	D	Q	a	b
Min:	0.85	0.05	4.90	6.20	4.30	0.40	0°	0.20	0.65 BSC
Max:	0.95	0.20	5.10	6.60	4.50	0.80	8°	0.25	

Revision History

DATE	REVISION	PAGE
2019-12-5	New	1-11
2023-11-14	Update Lead Temperature、Update encapsulation type、Updated DIP-14 dimension、Add annotation for Maximum Ratings、Update DIP Package New Model	1、4、8

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