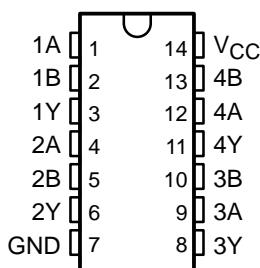


# SN54HC00, SN74HC00 QUADRUPLE 2-INPUT POSITIVE-NAND GATES

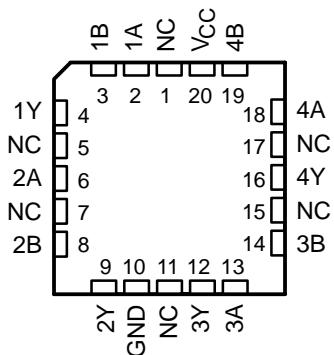
SCLS181D – DECEMBER 1982 – REVISED DECEMBER 2002

- Wide Operating Voltage Range of 2 V to 6 V
- Outputs Can Drive Up To 10 LSTTL Loads
- Low Power Consumption, 20- $\mu$ A Max I<sub>CC</sub>
- Typical t<sub>pd</sub> = 8 ns
- $\pm 4$ -mA Output Drive at 5 V
- Low Input Current of 1  $\mu$ A Max

**SN54HC00 . . . J OR W PACKAGE**  
**SN74HC00 . . . D, DB, N, NS, OR PW PACKAGE**  
(TOP VIEW)



**SN54HC00 . . . FK PACKAGE**  
(TOP VIEW)



NC – No internal connection

## description/ordering information

The 'HC00 devices contain four independent 2-input NAND gates. They perform the Boolean function Y = A • B or Y =  $\overline{A} + \overline{B}$  in positive logic.

## ORDERING INFORMATION

T <sub>A</sub>	PACKAGE†		ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	PDIP – N	Tube	SN74HC00N	SN74HC00N
	SOIC – D	Tube	SN74HC00D	HC00
		Tape and reel	SN74HC00DR	
	SOP – NS	Tape and reel	SN74HC00NSR	HC00
	SSOP – DB	Tape and reel	SN74HC00DBR	HC00
	TSSOP – PW	Tube	SN74HC00PW	HC00
		Tape and reel	SN74HC00PWR	
–55°C to 125°C	CDIP – J	Tube	SNJ54HC00J	SNJ54HC00J
	CFP – W	Tube	SNJ54HC00W	SNJ54HC00W
	LCCC – FK	Tube	SNJ54HC00FK	SNJ54HC00FK

† Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at [www.ti.com/sc/package](http://www.ti.com/sc/package).

## FUNCTION TABLE (each gate)

INPUTS		OUTPUT Y
A	B	
H	H	L
L	X	H
X	L	H



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PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



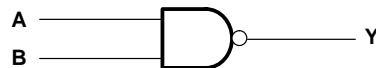
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On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

# SN54HC00, SN74HC00 QUADRUPLE 2-INPUT POSITIVE-NAND GATES

SCLS181D – DECEMBER 1982 – REVISED DECEMBER 2002

## logic diagram (positive logic)



## absolute maximum ratings over operating free-air temperature range (unless otherwise noted)<sup>†</sup>

Supply voltage range, V <sub>CC</sub> .....	–0.5 V to 7 V		
Input clamp current, I <sub>IK</sub> (V <sub>I</sub> < 0 or V <sub>I</sub> > V <sub>CC</sub> ) (see Note 1) .....	±20 mA		
Output clamp current, I <sub>OK</sub> (V <sub>O</sub> < 0 or V <sub>O</sub> > V <sub>CC</sub> ) (see Note 1) .....	±20 mA		
Continuous output current, I <sub>O</sub> (V <sub>O</sub> = 0 to V <sub>CC</sub> ) .....	±25 mA		
Continuous current through V <sub>CC</sub> or GND .....	±50 mA		
Package thermal impedance, θ <sub>JA</sub> (see Note 2): D package .....	86°C/W		
DB package .....	96°C/W		
N package .....	80°C/W		
NS package .....	76°C/W		
PW package .....	113°C/W		
Storage temperature range, T <sub>stg</sub> .....	–65°C to 150°C		

<sup>†</sup> Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

- NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.  
2. The package thermal impedance is calculated in accordance with JEDEC 51-7.

## recommended operating conditions (see Note 3)

		SN54HC00			SN74HC00			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	
V <sub>CC</sub>	Supply voltage	2	5	6	2	5	6	V
V <sub>IH</sub>	High-level input voltage	V <sub>CC</sub> = 2 V	1.5		1.5			V
		V <sub>CC</sub> = 4.5 V	3.15		3.15			
		V <sub>CC</sub> = 6 V	4.2		4.2			
V <sub>IL</sub>	Low-level input voltage	V <sub>CC</sub> = 2 V		0.5		0.5		V
		V <sub>CC</sub> = 4.5 V		1.35		1.35		
		V <sub>CC</sub> = 6 V		1.8		1.8		
V <sub>I</sub>	Input voltage	0	V <sub>CC</sub>		0	V <sub>CC</sub>		V
V <sub>O</sub>	Output voltage	0	V <sub>CC</sub>		0	V <sub>CC</sub>		V
Δt/Δv	Input transition rise/fall time	V <sub>CC</sub> = 2 V		1000		1000		ns
		V <sub>CC</sub> = 4.5 V		500		500		
		V <sub>CC</sub> = 6 V		400		400		
T <sub>A</sub>	Operating free-air temperature	–55		125	–40		85	°C

NOTE 3: All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, *Implications of Slow or Floating CMOS Inputs*, literature number SCBA004.

SN54HC00, SN74HC00  
QUADRUPLE 2-INPUT POSITIVE-NAND GATES

SCLS181D – DECEMBER 1982 – REVISED DECEMBER 2002

**electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)**

PARAMETER	TEST CONDITIONS	V <sub>CC</sub>	T <sub>A</sub> = 25°C			SN54HC00		SN74HC00		UNIT
			MIN	TYP	MAX	MIN	MAX	MIN	MAX	
V <sub>OH</sub>	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>	I <sub>OH</sub> = -20 µA	2 V	1.9	1.998	1.9		1.9		V
			4.5 V	4.4	4.499	4.4		4.4		
			6 V	5.9	5.999	5.9		5.9		
		I <sub>OH</sub> = -4 mA	4.5 V	3.98	4.3	3.7		3.84		
		I <sub>OH</sub> = -5.2 mA	6 V	5.48	5.8	5.2		5.34		
V <sub>OL</sub>	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>	I <sub>OL</sub> = 20 µA	2 V	0.002	0.1	0.1		0.1		V
			4.5 V	0.001	0.1	0.1		0.1		
			6 V	0.001	0.1	0.1		0.1		
		I <sub>OL</sub> = 4 mA	4.5 V		0.17	0.26	0.4		0.33	
		I <sub>OL</sub> = 5.2 mA	6 V		0.15	0.26	0.4		0.33	
I <sub>I</sub>	V <sub>I</sub> = V <sub>CC</sub> or 0		6 V		±0.1	±100	±1000	±1000	nA	
I <sub>CC</sub>	V <sub>I</sub> = V <sub>CC</sub> or 0, I <sub>O</sub> = 0		6 V			2	40	20	µA	
C <sub>i</sub>			2 V to 6 V		3	10	10	10	pF	

**switching characteristics over recommended operating free-air temperature range, C<sub>L</sub> = 50 pF (unless otherwise noted) (see Figure 1)**

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub>	T <sub>A</sub> = 25°C			SN54HC00		SN74HC00		UNIT
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
t <sub>pd</sub>	A or B	Y	2 V		45	90	135		115		ns
			4.5 V		9	18	27		23		
			6 V		8	15	23		20		
t <sub>t</sub>		Y	2 V		38	75	110		95		ns
			4.5 V		8	15	22		19		
			6 V		6	13	19		16		

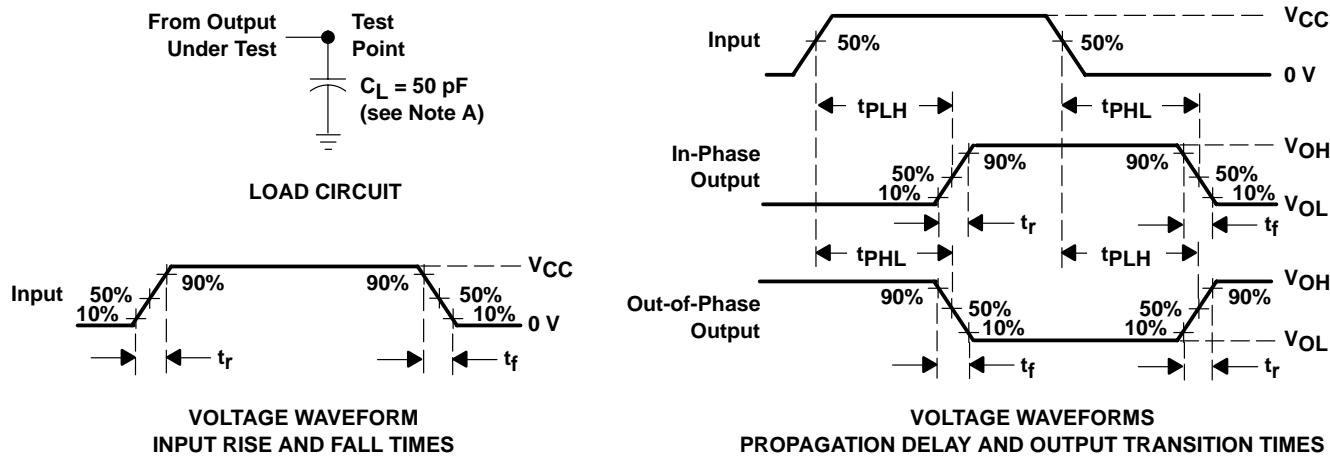
**operating characteristics, T<sub>A</sub> = 25°C**

PARAMETER	TEST CONDITIONS	TYP	UNIT
C <sub>pd</sub> Power dissipation capacitance per gate	No load	20	pF

# SN54HC00, SN74HC00 QUADRUPLE 2-INPUT POSITIVE-NAND GATES

SCLS181D – DECEMBER 1982 – REVISED DECEMBER 2002

## PARAMETER MEASUREMENT INFORMATION



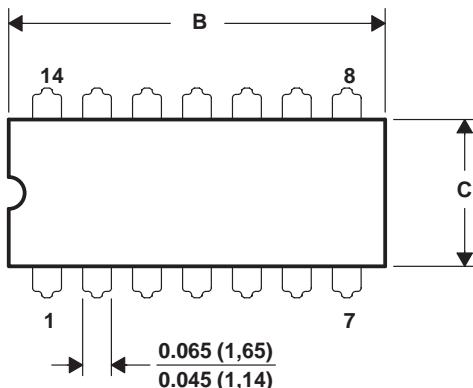
- NOTES:
- A.  $C_L$  includes probe and test-fixture capacitance.
  - B. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR  $\leq 1$  MHz,  $Z_0 = 50 \Omega$ ,  $t_r = 6$  ns,  $t_f = 6$  ns.
  - C. The outputs are measured one at a time with one input transition per measurement.
  - D.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{pd}$ .

Figure 1. Load Circuit and Voltage Waveforms

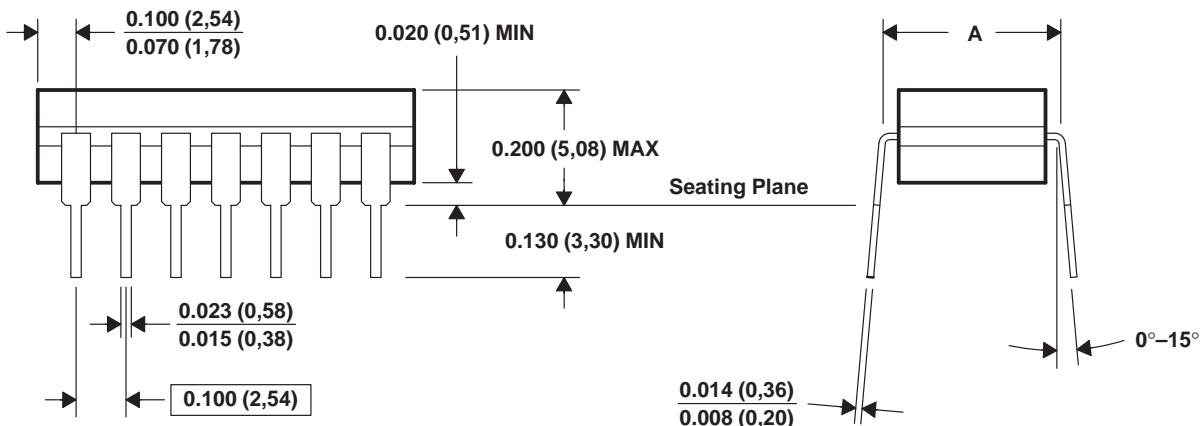
## J (R-GDIP-T\*\*)

14 LEADS SHOWN

## CERAMIC DUAL-IN-LINE



DIM \ PINS **	14	16	20
A MAX	0.310 (7,87)	0.310 (7,87)	0.310 (7,87)
A MIN	0.290 (7,37)	0.290 (7,37)	0.290 (7,37)
B MAX	0.785 (19,94)	0.785 (19,94)	0.975 (24,77)
B MIN	0.755 (19,18)	0.755 (19,18)	0.930 (23,62)
C MAX	0.300 (7,62)	0.300 (7,62)	0.300 (7,62)
C MIN	0.245 (6,22)	0.245 (6,22)	0.245 (6,22)

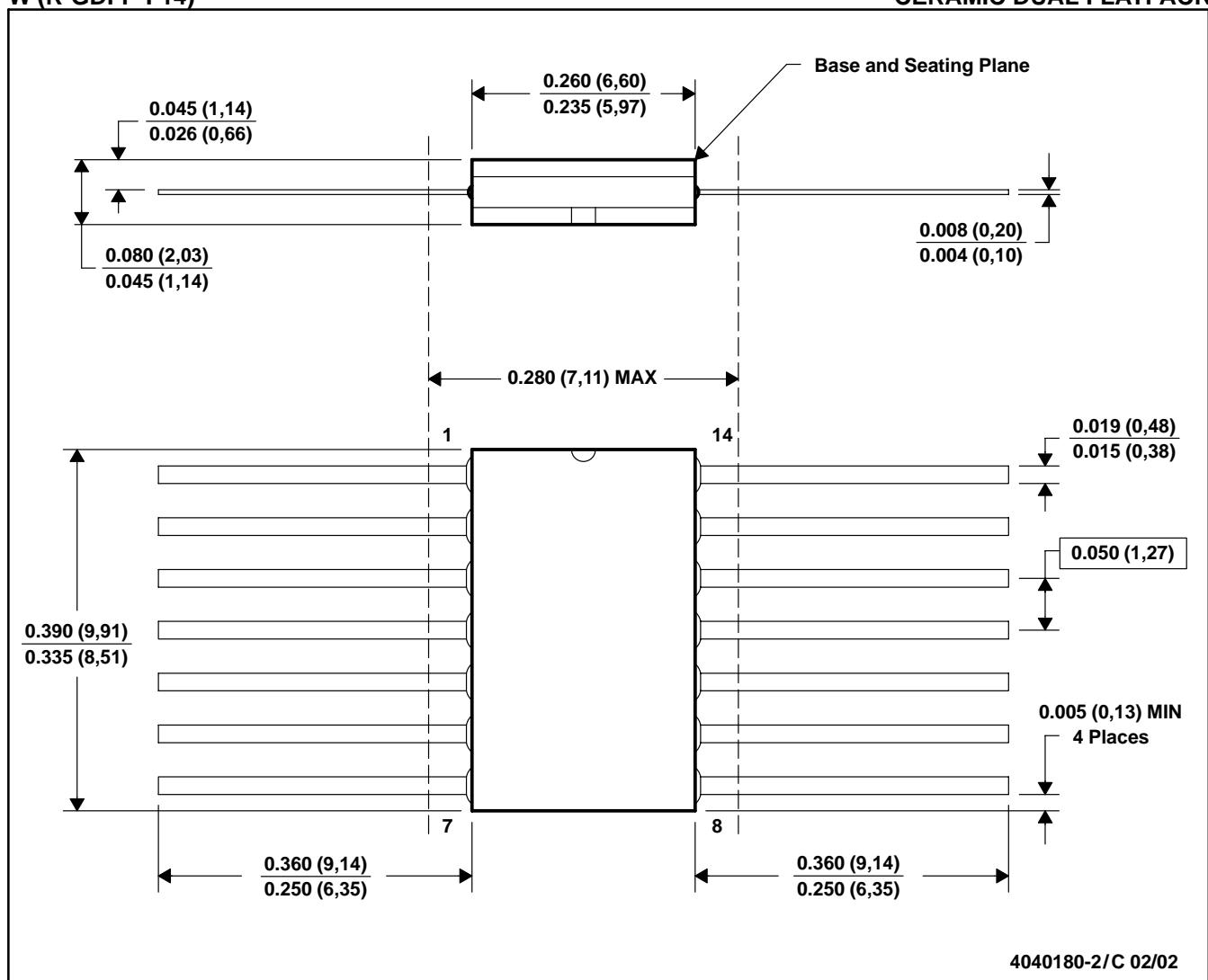


4040083/E 03/99

- NOTES: A. All linear dimensions are in inches (millimeters).  
 B. This drawing is subject to change without notice.  
 C. This package is hermetically sealed with a ceramic lid using glass frit.  
 D. Index point is provided on cap for terminal identification.  
 E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, and GDIP1-T20

W (R-GDFP-F14)

CERAMIC DUAL FLATPACK

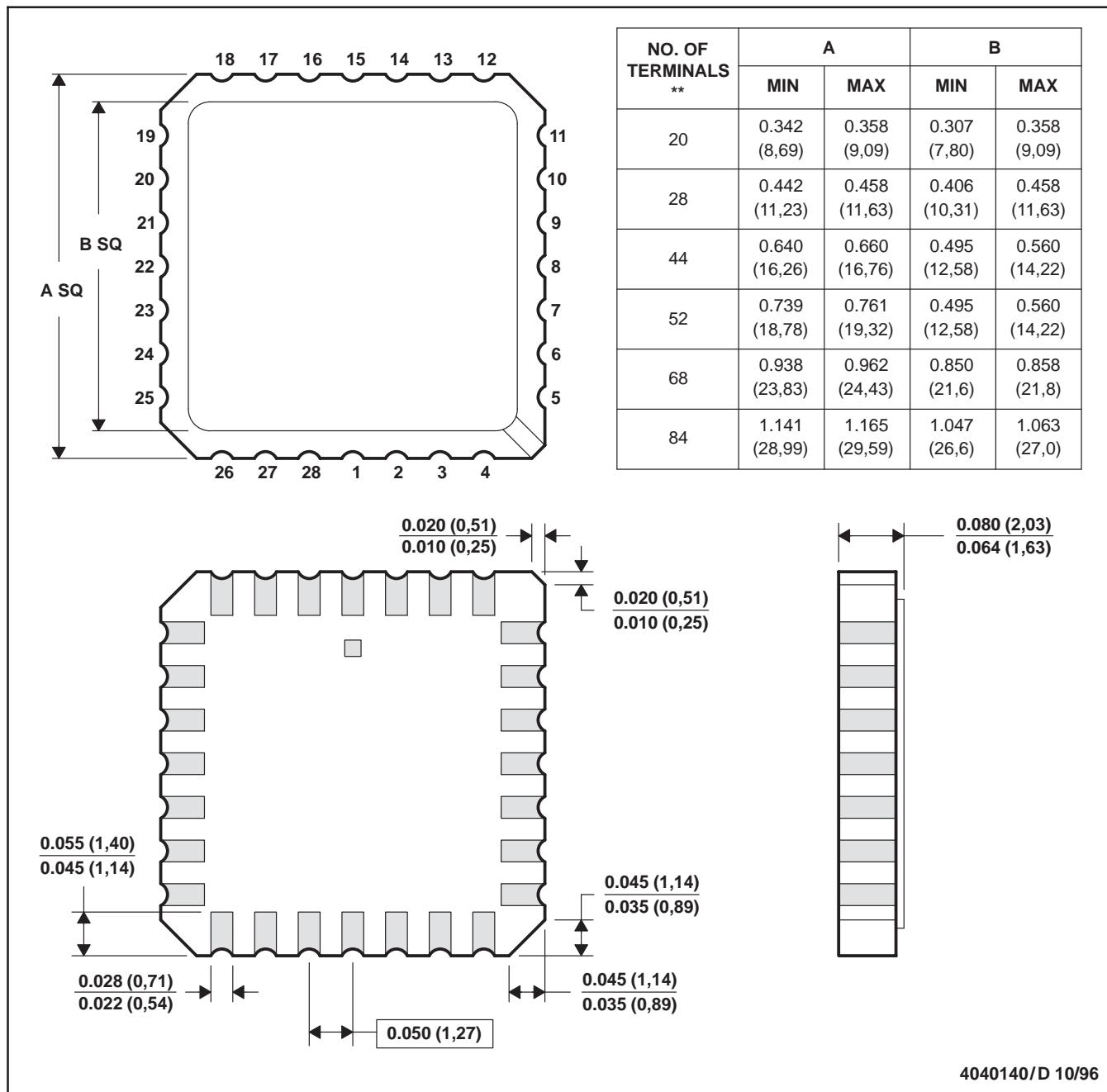


- NOTES:
- A. All linear dimensions are in inches (millimeters).
  - B. This drawing is subject to change without notice.
  - C. This package can be hermetically sealed with a ceramic lid using glass frit.
  - D. Index point is provided on cap for terminal identification only.
  - E. Falls within MIL STD 1835 GDFP1-F14 and JEDEC MO-092AB

## FK (S-CQCC-N\*\*)

## LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

C. This package can be hermetically sealed with a metal lid.

D. The terminals are gold plated.

E. Falls within JEDEC MS-004

4040140/D 10/96

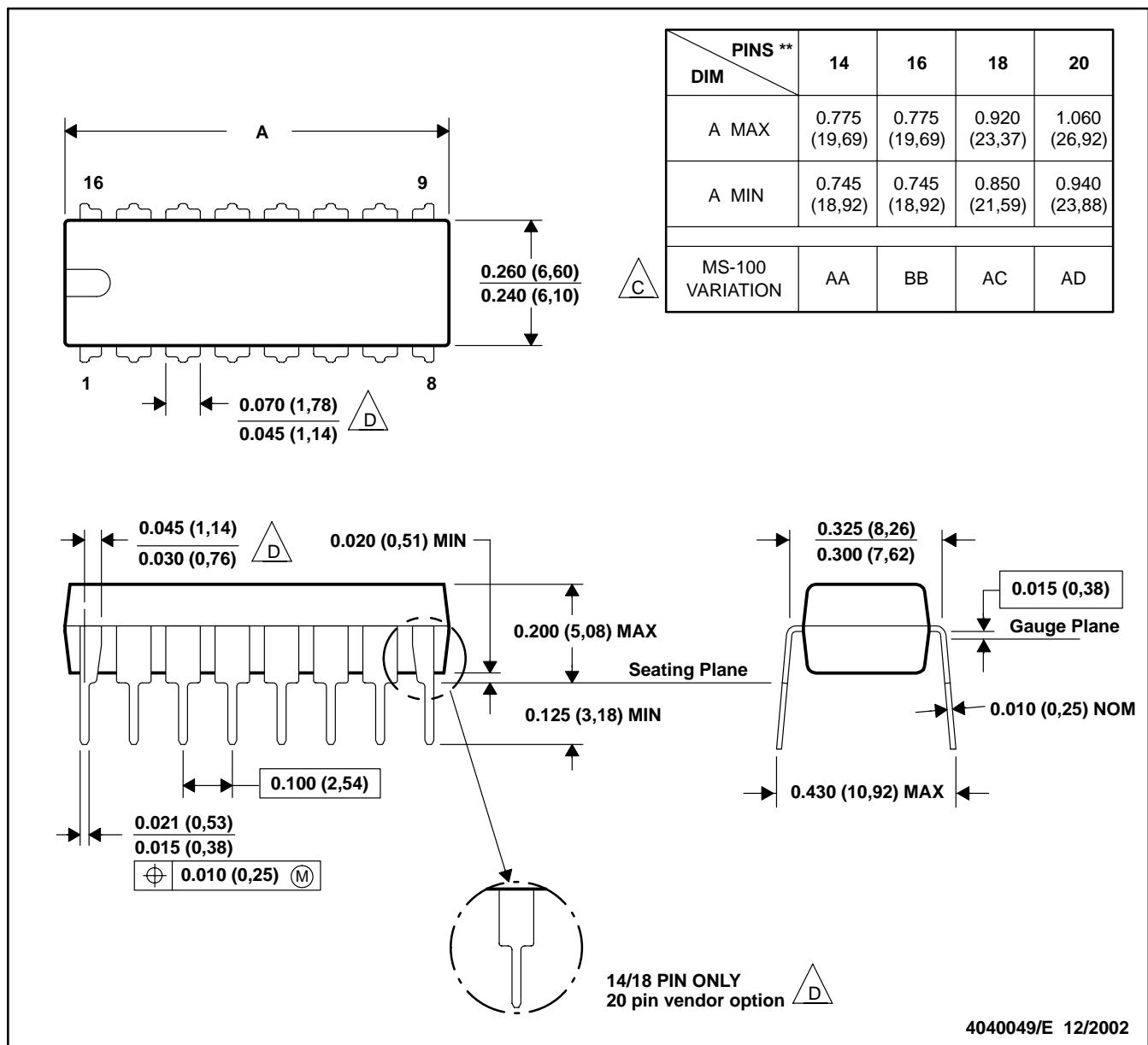
# MECHANICAL

MPDI002C – JANUARY 1995 – REVISED DECEMBER 20002

N (R-PDIP-T\*\*)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

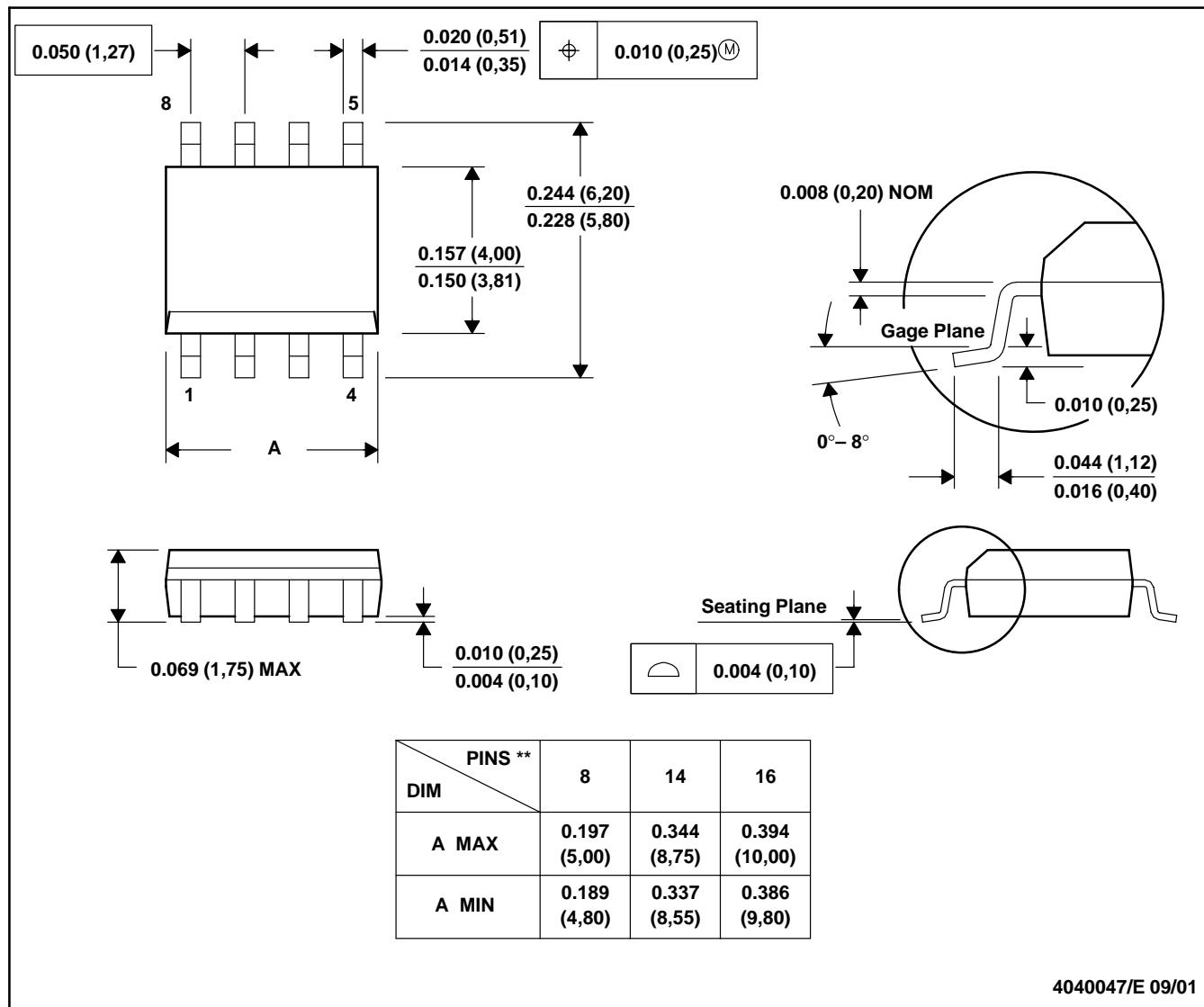
C. Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).

D. The 20 pin end lead shoulder width is a vendor option, either half or full width.

## D (R-PDSO-G\*\*)

## PLASTIC SMALL-OUTLINE PACKAGE

8 PINS SHOWN



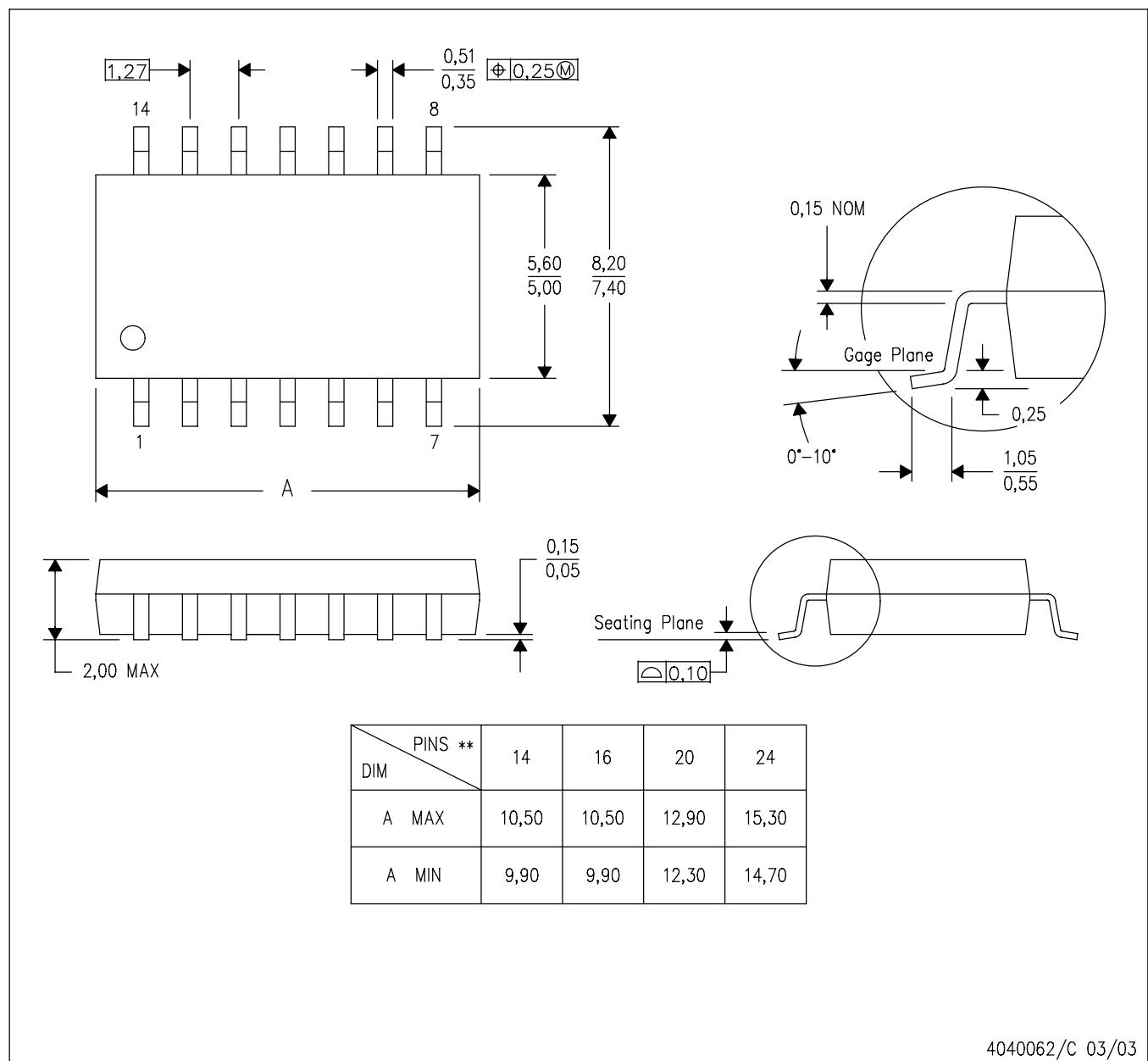
4040047/E 09/01

- NOTES: A. All linear dimensions are in inches (millimeters).  
 B. This drawing is subject to change without notice.  
 C. Body dimensions do not include mold flash or protrusion, not to exceed 0.006 (0.15).  
 D. Falls within JEDEC MS-012

NS (R-PDSO-G\*\*)

14-PIN SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



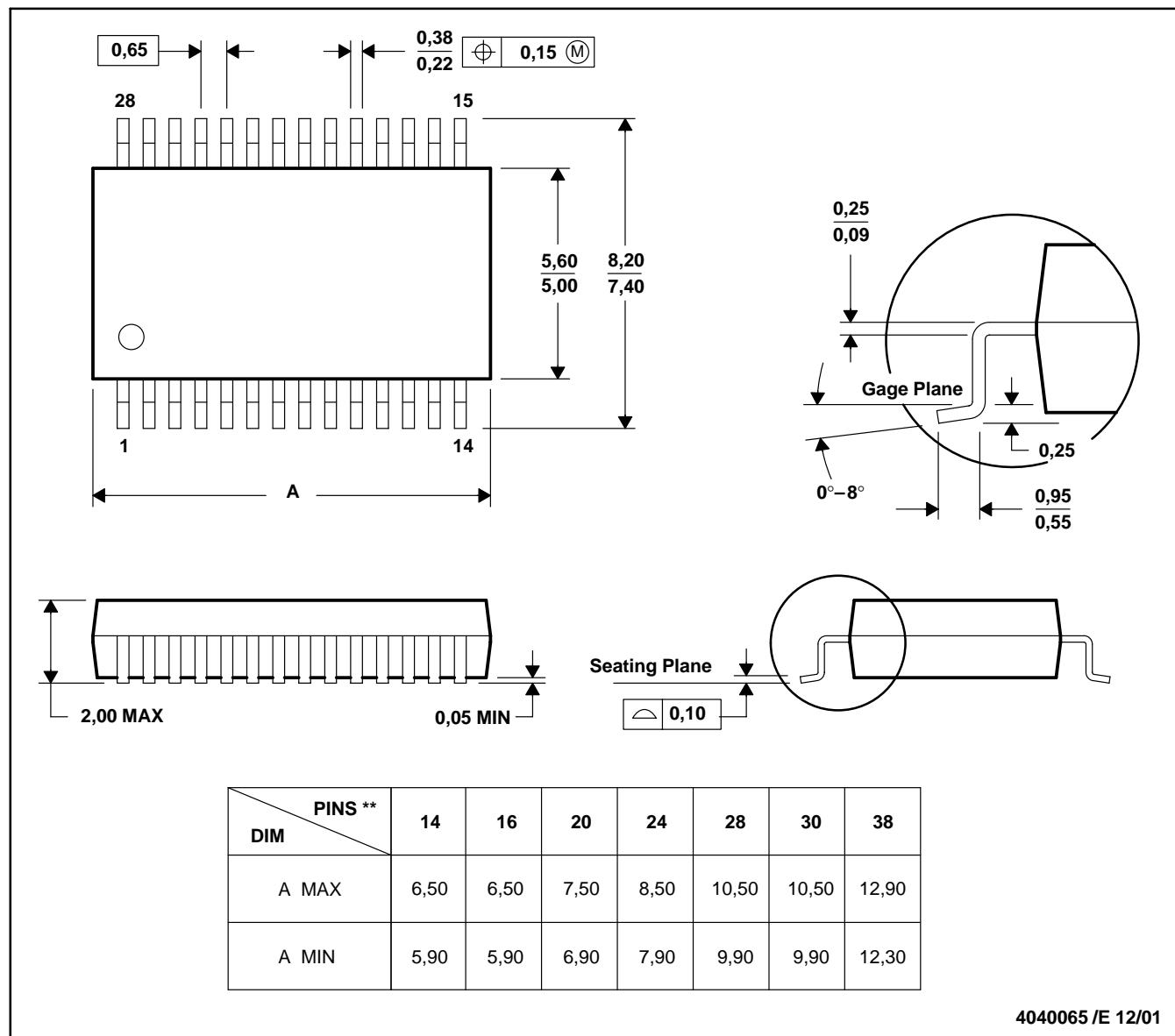
- NOTES:
- A. All linear dimensions are in millimeters.
  - B. This drawing is subject to change without notice.
  - C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.

4040062/C 03/03

## DB (R-PDSO-G\*\*)

## PLASTIC SMALL-OUTLINE

28 PINS SHOWN

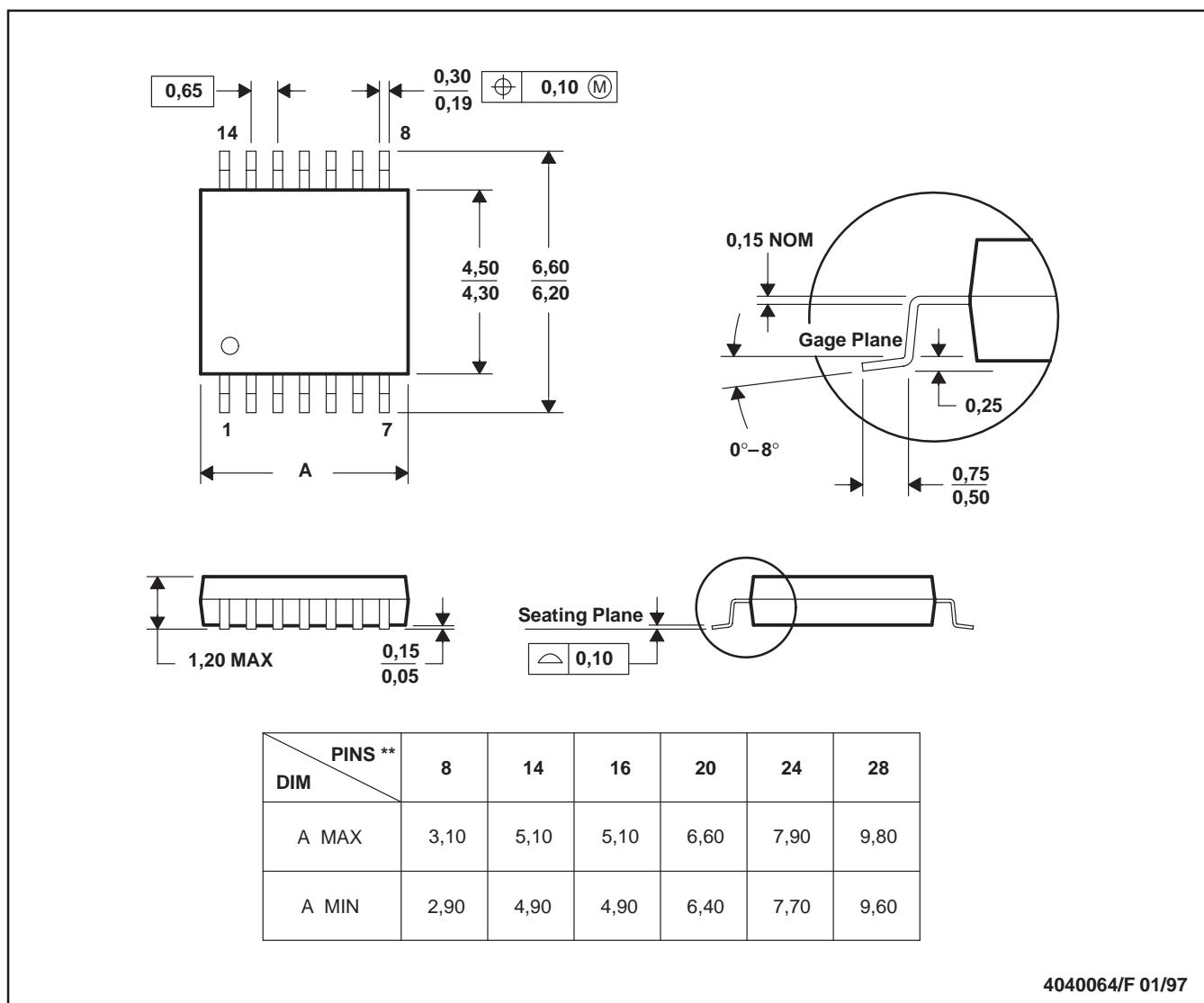


- NOTES:
- A. All linear dimensions are in millimeters.
  - B. This drawing is subject to change without notice.
  - C. Body dimensions do not include mold flash or protrusion not to exceed 0,15.
  - D. Falls within JEDEC MO-150

## PW (R-PDSO-G\*\*)

## PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



- NOTES:
- All linear dimensions are in millimeters.
  - This drawing is subject to change without notice.
  - Body dimensions do not include mold flash or protrusion not to exceed 0,15.
  - Falls within JEDEC MO-153

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[APPLICATION NOTES](#) | [USER GUIDES](#) | [MORE LITERATURE](#)

PRODUCT SUPPORT: [TRAINING](#)

## SN74HC00, Quad 2-Input Positive-NAND Gates

DEVICE STATUS: ACTIVE

PARAMETER NAME	SN54HC00	SN74HC00
Voltage Nodes (V)	6, 5, 2	6, 5, 2
Vcc range (V)	2.0 to 6.0	2.0 to 6.0
Input Level	CMOS	CMOS
Output Level	CMOS	CMOS
Output Drive (mA)		-4/4
No. of Gates	4	4
Static Current		0.02
tpd max (ns)		20

### FEATURES

[▲ Back to Top](#)

- Wide Operating Voltage Range of 2 V to 6 V
- Outputs Can Drive Up To 10 LSTTL Loads
- Low Power Consumption, 20- $\mu$ A Max  $I_{CC}$
- Typical  $t_{pd} = 8$  ns
- $\pm 4$ -mA Output Drive at 5 V
- Low Input Current of 1  $\mu$ A Max

### DESCRIPTION

[▲ Back to Top](#)

The 'HC00 devices contain four independent 2-input NAND gates. They perform the Boolean function  $Y = (A \cdot B)^\backslash$  or  $Y = A^\backslash + B^\backslash$  in positive logic.

### TECHNICAL DOCUMENTS

[▲ Back to Top](#)

To view the following documents, [Acrobat Reader 4.0](#) is required.

To download a document to your hard drive, right-click on the link and choose 'Save'.

### DATASHEET

[▲ Back to Top](#)

Full datasheet in Acrobat PDF: [sn74hc00.pdf](#) (279 KB, Rev.D) (Updated: 12/03/2002)

### APPLICATION NOTES

[▲ Back to Top](#)

View Application Notes for [Digital Logic](#)

- [CMOS Power Consumption and CPD Calculation \(Rev. B\)](#) (SCAA035B - Updated: 06/01/1997)
- [Designing With Logic \(Rev. C\)](#) (SDYA009C - Updated: 06/01/1997)
- [Evaluation of Nickel/Palladium/Gold-Finished Surface-Mount Integrated Circuits](#) (SZZA026 - Updated: 06/20/2001)
- [Implications of Slow or Floating CMOS Inputs \(Rev. C\)](#) (SCBA004C - Updated: 02/01/1998)
- [Input and Output Characteristics of Digital Integrated Circuits](#) (SDYA010 - Updated: 10/01/1996)
- [Live Insertion](#) (SDYA012 - Updated: 10/01/1996)
- [SN54/74HCT CMOS Logic Family Applications and Restrictions](#) (SCLA011 - Updated: 05/01/1996)
- [Selecting the Right Texas Instruments Signal Switch](#) (SZZA030 - Updated: 09/07/2001)

- [TI IBIS File Creation, Validation, and Distribution Processes \(SZZA034 - Updated: 08/29/2002\)](#)
- [Understanding and Interpreting Texas Instruments Standard-Logic Products Data Sh \(Rev. A\) \(SZZA036A - Updated: 02/27/2003\)](#)
- [Using High Speed CMOS and Advanced CMOS in Systems With Multiple Vcc \(SCLA008 - Updated: 04/01/1996\)](#)

**MORE LITERATURE**[▲Back to Top](#)

- [Enhanced Plastic Portfolio Brochure \(SGZB004, 387 KB - Updated: 08/19/2002\)](#)
- [Logic Reference Guide \(SCYB004, 1032 KB - Updated: 10/23/2001\)](#)
- [MicroStar Junior BGA Design Summary \(SCET004, 167 KB - Updated: 07/28/2000\)](#)
- [Military Brief \(SGYN138, 803 KB - Updated: 10/10/2000\)](#)
- [Overview of IEEE Std 91-1984, Explanation of Logic Symbols Training Booklet \(Rev. A\) \(SDYZ001A, 138 KB - Updated: 07/01/1996\)](#)
- [Palladium Lead Finish User's Manual \(SDYV001, 2041 KB - Updated: 11/01/1996\)](#)
- [QML Class V Space Products Military Brief \(Rev. A\) \(SGZN001A, 257 KB - Updated: 10/07/2002\)](#)

**USER GUIDES**[▲Back to Top](#)

- [LOGIC Pocket Data Book \(SCYD013, 4837 KB - Updated: 12/05/2002\)](#)
- [Signal Switch Data Book \(SCDD003, 10259 KB - Updated: 03/19/2001\)](#)

**SAMPLES**[▲Back to Top](#)

<u>ORDERABLE DEVICE</u>	<u>PACKAGE INDUSTRY (TI)</u>	<u>PINS</u>	<u>TEMP (°C)</u>	<u>STATUS</u>	<u>PRODUCT CONTENT</u>	<u>SAMPLES</u>
SN74HC00D	SOIC (D)	14	-40 TO 85	ACTIVE	<a href="#">View Product Content</a>	<a href="#">Request Samples</a>
SN74HC00DR	SOIC (D)	14	-40 TO 85	ACTIVE	<a href="#">View Product Content</a>	<a href="#">Request Samples</a>
SN74HCOON	PDIP (N)	14	-40 TO 85	ACTIVE	<a href="#">View Product Content</a>	<a href="#">Request Samples</a>
SN74HCOONSR	SOP (NS)	14	-40 TO 85	ACTIVE	<a href="#">View Product Content</a>	<a href="#">Request Samples</a>
SN74HCOOPWR	TSSOP (PW)	14	-40 TO 85	ACTIVE	<a href="#">View Product Content</a>	<a href="#">Request Samples</a>

**PRICING/AVAILABILITY/PKG**[▲Back to Top](#)**DEVICE INFORMATION**

Updated Daily

<u>ORDERABLE DEVICE</u>	<u>STATUS</u>	<u>PACKAGE TYPE   PINS</u>	<u>TEMP (°C)</u>	<u>PRODUCT CONTENT</u>	<u>BUDGETARY PRICING QTY   SUS</u>	<u>STD PACK QTY</u>
SN74HC00ADBLE	OBsolete	SSOP (DB)   14	-40 TO 85	<a href="#">View Contents</a>	1KU	
SN74HC00D	ACTIVE	SOIC (D)   14	-40 TO 85	<a href="#">View Contents</a>	1KU   0.11	50

**TI INVENTORY STATUS**

As Of 09:00 AM GMT, 17 Apr 2003

<u>IN STOCK</u>	<u>IN PROGRESS QTY   DATE</u>	<u>LEAD TIME</u>
0*		<a href="#">Call**</a>
0*	1953   30 Apr	4 WKS
	>10k   12 May	

**REPORTED DISTRIBUTOR INVENTORY**

As Of 09:00 AM GMT, 17 Apr 2003

<u>DISTRIBUTOR COMPANY   REGION</u>	<u>IN STOCK</u>	<u>PURCHASE</u>
None Reported <a href="#">View Distributors</a>		
Avnet   Americas	>1k	<a href="#">BUY NOW</a>
Arrow   Americas	>1k	<a href="#">BUY NOW</a>
EBV Electronik   Europe	>1k	<a href="#">BUY NOW</a>
DigiKey   Americas	>1k	<a href="#">BUY NOW</a>
Newark Electronics   Americas	>1k	<a href="#">BUY NOW</a>

SN74HC00DR	ACTIVE	<a href="#">SOIC (D)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU   0.11	2500	<a href="#">0*</a>	>10k   28 Apr	2 WKS	<a href="#">Avnet</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">Arrow</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">EBV</a> <a href="#">Electronik</a>   Europe	>1k	<a href="#">BUY NOW</a>
											<a href="#">Abacus Polar</a>   Europe	>1k	<a href="#">BUY NOW</a>
											<a href="#">DigiKey</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">Avnet-SILICA</a>   Europe	>1k	<a href="#">BUY NOW</a>
											<a href="#">Avnet-SILICA</a>   Europe	>1k	<a href="#">BUY NOW</a>
											<a href="#">Avnet</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">Arrow</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">EBV</a> <a href="#">Electronik</a>   Europe	>1k	<a href="#">BUY NOW</a>
											<a href="#">DigiKey</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">Newark</a> <a href="#">Electronics</a>   Americas	>1k	<a href="#">BUY NOW</a>
											None Reported <a href="#">View Distributors</a>		
											None Reported <a href="#">View Distributors</a>		
											None Reported <a href="#">View Distributors</a>		
											<a href="#">DigiKey</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">Arrow</a>   Americas	356	<a href="#">BUY NOW</a>
											None Reported <a href="#">View Distributors</a>		
											<a href="#">Arrow</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">Avnet</a>   Americas	>1k	<a href="#">BUY NOW</a>
											<a href="#">DigiKey</a>   Americas	316	<a href="#">BUY NOW</a>
SN74HC00N	ACTIVE	<a href="#">PDIP (N)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU	25	<a href="#">0*</a>	3   21 Apr	7 WKS			
SN74HC00N3	OBSOLETE	<a href="#">PDIP (N)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU		<a href="#">0*</a>		<a href="#">Call**</a>			
SN74HC00NS	ACTIVE	<a href="#">SOP (NS)</a>	14		<a href="#">View Contents</a>	1KU		<a href="#">0*</a>		<a href="#">Call**</a>			
SN74HC00NSL	OBSOLETE	<a href="#">SOP (NS)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU		<a href="#">0*</a>		<a href="#">Call**</a>			
SN74HC00NSR	ACTIVE	<a href="#">SOP (NS)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU   0.55	2000	<a href="#">0*</a>	>10k   28 Apr	2 WKS	<a href="#">DigiKey</a>   Americas	>1k	<a href="#">BUY NOW</a>
SN74HC00PW	ACTIVE	<a href="#">TSSOP (PW)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU   0.18	90	<a href="#">0*</a>	450   16 Apr	4 WKS	<a href="#">Arrow</a>   Americas	356	<a href="#">BUY NOW</a>
SN74HC00PWLE	OBSOLETE	<a href="#">TSSOP (PW)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU		<a href="#">0*</a>		<a href="#">Call**</a>			
SN74HC00PWR	ACTIVE	<a href="#">TSSOP (PW)</a>	14	-40 TO 85	<a href="#">View Contents</a>	1KU   0.11	2000	<a href="#">0*</a>	2400   25 Apr	2 WKS	<a href="#">Arrow</a>   Americas	>1k	<a href="#">BUY NOW</a>

Table Data Updated on: 4/17/2003

