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TinyLogic HS 2-Input NAND Gate

NC7S00

Description

The NC7S00 is a single 2–Input high performance CMOS NAND Gate. Advanced Silicon Gate CMOS fabrication assures high speed and low power circuit operation over a broad $V_{\rm CC}$ range. ESD protection diodes inherently guard both inputs and output with respect to the $V_{\rm CC}$ and GND rails. Three stages of gain between inputs and output assures high noise immunity and reduced sensitivity to input edge rate.

Features

- Space Saving SOT23-5, SC-74A and SC-88A 5-Lead Packages
- Ultra Small MicroPak™ Leadless Package
- High Speed: $t_{PD} = 3.5 \text{ ns Typ}$
- Low Quiescent Power: I_{CC} < 1 μA
- \bullet Balanced Output Drive: 2 mA I_{OL} , -2 mA I_{OH}
- Broad V_{CC} Operating Range: 2 V 6 V
- Balanced Propagation Delays
- Specified for 3 V Operation
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant



Figure 1. Logic Symbol

1

MARKING DIAGRAMS



SIP6 CASE 127EB





SC-74A CASE 318BQ





SOT23-5 CASE 527AH





SC-88A CASE 419A-02



A3, 7S00, S00 = Specific Device Code

KK = 2-Digit Lot Run Traceability Code

XY = 2-Digit Date Code Format

Z = Assembly Plant Code

M = Date Code*

*Date Code orientation and/or position may vary depending upon manufacturing location.

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 5 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 5.

NC7S00

Pin Configurations

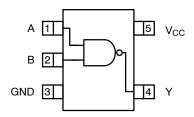


Figure 2. SOT23-5, SC-88A and SC-74A (Top View)

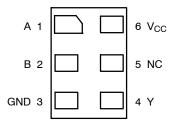


Figure 3. MicroPak (Top Through View)

PIN DESCRIPTIONS

Pin Names	Description
A, B	Inputs
Y	Output
NC	No Connect

FUNCTION TABLE $(Y = \overline{AB})$

Inp	Output	
Α	В	Υ
L	L	Н
L	Н	Н
Н	L	Н
Н	Н	L

H = HIGH Logic Level L = LOW Logic Level

ABSOLUTE MAXIMUM RATINGS

Symbol	Paramete	r	Min	Max	Unit
V _{CC}	Supply Voltage		-0.5	6.5	V
I _{IK}	DC Input Diode Current	V _{IN} < 0 V	-	-20	mA
		V _{IN} > V _{CC}	-	+20	
V _{IN}	DC Input Voltage	•	-0.5	V _{CC} + 0.5	V
l _{ok}	DC Output Diode Current	V _{OUT} < 0 V	-	-20	mA
		V _{OUT} > V _{CC}	-	+20	
V _{OUT}	DC Output Voltage	-	-0.5	V _{CC} + 0.5	V
I _{OUT}	DC Output Source or Sink Current		-	±12.5	mA
I _{CC} or I _{GND}	DC V _{CC} or Ground Current per Outp	ut Pin	-	±25	mA
T _{STG}	Storage Temperature		-65	+150	°C
TJ	Junction Temperature		-	+150	°C
TL	Lead Temperature (Soldering, 10 Seconds)		-	+260	°C
P_{D}	Power Dissipation in Still Air	SC-74A / SOT23-5	-	390	mW
		SC-88A	-	332	
		MicroPak-6	-	812	

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

NC7S00

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	Supply Voltage		2.0	6.0	V
V _{IN}	Input Voltage		0	V _{CC}	V
V _{OUT}	Output Voltage		0	V _{CC}	V
T _A	Operating Temperature		-40	+85	°C
t _r , t _f	Input Rise and Fall Times	V _{CC} at 2.0 V	0	20	ns/V
		V _{CC} at 3.0 V	0	20	
		V _{CC} at 4.5 V	0	10	
		V _{CC} at 6.0 V	0	5	
$\theta_{\sf JA}$	Thermal Resistance	SC-74A / SOT23-5	-	320	°C/W
		SC-88A	-	377	
		MicroPak-6	-	154	

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

1. Unused inputs must be held HIGH or LOW. They may not float.

DC ELECTICAL CHARACTERISTICS

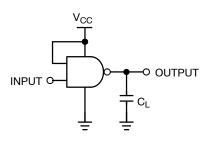
						x = +25°	°C	T _A = -40	to +85°C		
Symbol	Parameter	V _{CC} (V)	Coi	nditions	Min	Тур	Max	Min	Max	Unit	
V _{IH}	HIGH Level Input Voltage	2.0			1.50	-	-	1.50	-	V	
		3.0 – 6.0			0.7 x V _{CC}	-	-	0.7 x V _{CC}	-		
V _{IL}	LOW Level Input Voltage	2.0			-	-	0.50	-	0.50	٧	
		3.0 – 6.0			-	-	0.3 x V _{CC}	-	0.3 x V _{CC}		
V _{OH}	HIGH Level Output Voltage	2.0	I _{OH} = -20	μ A ,	1.90	2.0	_	1.90	-	V	
		3.0	$V_{IN} = V_{IH}$	or V _{IL}	2.90	3.0	_	2.90	-		
		4.5			4.40	4.5	_	4.40	-		
		6.0			5.90	6.0	_	5.90	-		
		3.0	$V_{IN} = V_{IH}$	$I_{OH} = -1.3 \text{ mA}$	2.68	2.85	_	2.63	-		
		4.5	or V _{IL}	or v _{IL}	I _{OH} = -2 mA	4.18	4.35	_	4.13	-	
		6.0		$I_{OH} = -2.6 \text{ mA}$	5.68	5.85	_	5.63	-		
V _{OL}	LOW Level Output Voltage	2.0	l _{OL} = 20 μ/		-	0.0	0.10	-	0.10	V	
		3.0	$V_{IN} = V_{IH} c$	or V _{IL}	-	0.0	0.10	-	0.10		
		4.5			-	0.0	0.10	_	0.10		
		6.0			-	0.0	0.10	-	0.10		
		3.0	V _{IŅ} = V _{IH}	I _{OH} = 1.3 mA	-	0.1	0.26	-	0.33		
		4.5	or V _{IL}	I _{OL} = 2 mA	-	0.1	0.26	-	0.33		
		6.0		I _{OL} = 2.6 mA	_	0.1	0.26	_	0.33		
I _{IN}	Input Leakage Current	6.0	V _{IN} = V _{CC} ,	GND	-	_	±0.1	-	±1.0	μΑ	
Icc	Quiescent Supply Current	6.0	V _{IN} = V _{CC} ,	GND	-	_	1.0	-	10.0	μΑ	

AC ELECTRICAL CHARACTERISTICS

				T _A = +25°C		:	T _A = -40	to +85°C	
Symbol	Parameter	V _{CC} (V)	Conditions	Min	Тур	Max	Min	Max	Unit
t _{PLH} , t _{PHL}	Propagation Delay (Figure 4, 6)	5.0	C _L = 15 pF	-	3.5	15	-	-	ns
		2.0	C _L = 50 pF	-	19	100	-	125	
		3.0		_	10.5	27	-	35	
		4.5		_	7.5	20	-	25	
		6.0		_	6.5	17	-	21	
t_{TLH},t_{THL}	Output Transition Time	5.0	C _L = 15 pF	-	3.0	10	-	-	ns
	(Figure 4, 6)	2.0	C _L = 50 pF	-	25	125	-	155	
		3.0		_	16	35	-	45	
		4.5		_	11	25	-	31	
		6.0		_	9	21	-	26	
C _{IN}	Input Capacitance	Open		-	2	10	-	10	pF
C _{PD}	Power Dissipation Capacitance (Figure 5)	5.0	(Note 2)	_	6	_	-	-	pF

^{2.} CPD is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output loading and operating at 50% duty cycle. CPD is related to ICCD dynamic operating current by the expression: $I_{CCD} = (C_{PD}) (V_{CC}) (f_{IN}) + (I_{CC}static).$

AC Loading and Waveforms



C_L includes load and stray capacitance Input PRR = 1.0 MHz, $t_W = 500 \text{ ns}$

Figure 4. AC Test Circuit

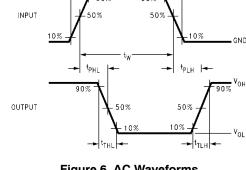
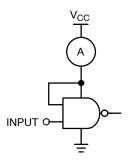


Figure 6. AC Waveforms



Input = AC Waveform; PRR = Variable; Duty Cycle = 50%.

Figure 5. I_{CCD} Test Circuit

NC7S00

DEVICE ORDERING INFORMATION

Device	Top Mark	Packages	Shipping [†]
NC7S00M5X	7800	SC-74A	3000 / Tape & Reel
NC7S00P5X	S00	SC-88A	3000 / Tape & Reel
NC7S00L6X	A3	SIP6, MicroPak	5000 / Tape & Reel

DISCONTINUED (Note 3)

NC7S00M5X-L22090	7800	SOT23-5	3000 / Tape & Reel
NC7S00P5X-L22057	S00	SC-88A	3000 / Tape & Reel
NC7S00L6X-L22175	A3	SIP6, MicroPak	5000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

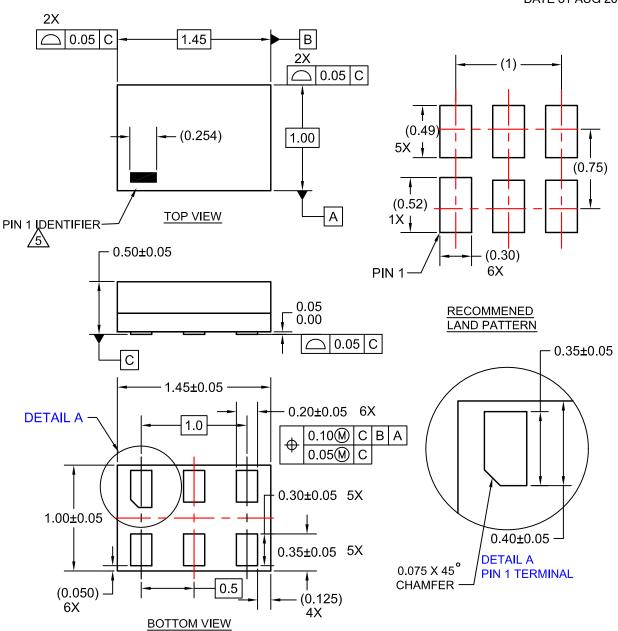
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^{3.} **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on www.onsemi.com.





DATE 31 AUG 2016



- NOTES:
- 1. CONFORMS TO JEDEC STANDARD MO-252 VARIATION UAAD
- 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-2009
- 4.PIN ONE IDENTIFIER IS 2X LENGTH OF ANY
 - OTHER LINE IN THE MARK CODE LAYOUT.

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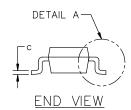


SC-74A-5 3.00x1.50x0.95, 0.95P CASE 318BQ ISSUE C

DATE 26 FEB 2024

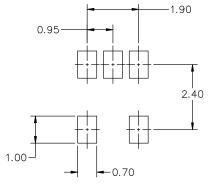


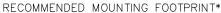
- 1. DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5-2018.
- 2. ALL DIMENSION ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
- 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS OF GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE.



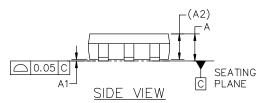
DIM			
DIN	MIN.	NOM.	MAX.
Α	0.90	1.00	1.10
A1	0.01	0.18	0.10
A2	(0.95 REF	
Ь	0.25	0.37	0.50
C	0.10	0.18	0.26
D	2.85	3.00	3.15
E	:	2.75 BSC	;
E1	1.35	1.50	1.65
е	(0.95 BSC	;
L	0.20	0.40	0.60
L1	0.62 REF.		
L2	0.25 BSC		
Θ	0.	5*	10°

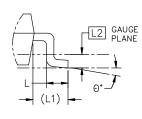
MILLIMETERS





* FOR ADDITIONAL INFORMATION ON OUR Pb-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.





DETAIL "A" SCALE 2:1

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

M = Date Code = Pb-Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot " •", may or may not be present. Some products may not follow the Generic Marking.

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SC-88A (SC-70-5/SOT-353) CASE 419A-02 ISSUE M

DATE 11 APR 2023

NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- CONTROLLING DIMENSION: MILLIMETERS
- 419A-01 DBSDLETE, NEW STANDARD 419A-02
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH,

DIM	MILLIMETERS			
INITU	MIN.	N□M.	MAX.	
А	0.80	0.95	1.10	
A1			0.10	
A3		0.20 REF	•	
b	0.10	0.20	0.30	
C	0.10		0.25	
D	1.80	2.00	2,20	
Е	2.00	2.10	2.20	
E1	1.15	1.25	1.35	
е	0.65 BSC			
L	0.10	0.15	0.30	

5X b

◆ 0.2 M B M

- PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

	L — H	
<u> </u>	0.50	5

RECOMMENDED MOUNTING FOOTPRINT

For additional information on our Pb-Free strategy and soldering details, please download the DN Semiconductor Soldering and Mounting Techniques Reference Manual, SDLDERRM/D.

5. COLLECTOR

GENERIC MARKING DIAGRAM*



*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

XXX = Specific Device Code

= Date Code

= Pb-Free Package

(Note: Microdot may be in either location)

STYLE 1:	STYLE 2:	STYLE 3:	STYLE 4:	STYLE 5:
PIN 1. BASE	PIN 1. ANODE	PIN 1. ANODE 1	PIN 1. SOURCE 1	PIN 1. CATHODE
2. EMITTER	2. EMITTER	2. N/C	2. DRAIN 1/2	2. COMMON ANODE
3. BASE	3. BASE	3. ANODE 2	SOURCE 1	3. CATHODE 2
4. COLLECTOR	COLLECTOR	CATHODE 2	4. GATE 1	4. CATHODE 3
COLLECTOR	CATHODE	CATHODE 1	5. GATE 2	5. CATHODE 4
STYLE 6:	STYLE 7:	STYLE 8:	STYLE 9:	Note: Please refer to datasheet for
PIN 1. EMITTER 2	PIN 1. BASE	PIN 1. CATHODE	PIN 1. ANODE	style callout. If style type is not called
2. BASE 2	EMITTER	2. COLLECTOR	2. CATHODE	
3. EMITTER 1	3. BASE	3. N/C	3. ANODE	out in the datasheet refer to the device
4. COLLECTOR	COLLECTOR	4. BASE	4. ANODE	datasheet pinout or pin assignment.
COLLECTOR 2/BASE 1	5. COLLECTOR	5. EMITTER	5. ANODE	datasheet pinout of pin assignment.

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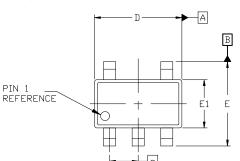
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5. COLLECTOR 2/BASE 1





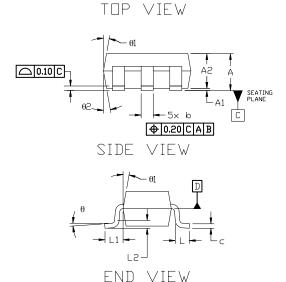


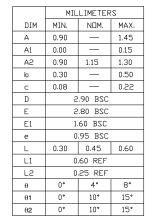
SOT-23, 5 Lead CASE 527AH ISSUE A

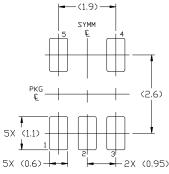
DATE 09 JUN 2021

NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 19894
- CONTROLLING DIMENSION: MILLIMETERS
- MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS.
 MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
- 4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS, MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED O. 25 PER SIDE. D AND E1 DIMENSIONS ARE DETERMINED AT DATUM D.
- 5. DIMENSION '6' DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE O.O8mm TOTAL IN EXCESS OF THE '6' DIMENSION AT MAXIMUM MATERIAL CONDITION. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD SHALL NOT BE LESS THAN O.O7mm.







GENERIC MARKING DIAGRAM*



XXX = Specific Device Code M = Date Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

RECOMMENDED MOUNTING FOOTPRINT

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