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September 2008

NC7SP38

TinyLogic® ULP 2-Input NAND Gate (Open Drain Output)

Features

- 0.9V to 3.6V V_{CC} supply operation
- 3.6V overvoltage tolerant I/O's at V_{CC} from 0.9V to 3.6V
- t_{PD}:
 - 3.0ns typ. for 3.0V to 3.6V V_{CC}
 - 4.0ns typ. for 2.3V to 2.7V V_{CC}
 - 5.0ns typ. for 1.65V to 1.95V V_{CC}
 - 6.0ns typ. for 1.40V to 1.60V V_{CC}
 - 9.0ns typ. for 1.10V to 1.30V V_{CC}
 - 24.0ns typ. for 0.90V V_{CC}
- Power-off high impedance inputs and outputs
- Static drive (I_{OH}/I_{OI}):
 - ±2.6mA @ 3.00V V_{CC}
 - ±2.1mA @ 2.30V V_{CC}
 - ±1.5mA @ 1.65V V_{CC}
 - ±1.0mA @ 1.40V V_{CC}
 - ±0.5mA @ 1.10V V_{CC}
 - ±20μA @ 0.9V V_{CC}
- Uses patented Quiet Series™ noise/EMI reduction
- Ultra small MicroPak™ package
- Ultra low dynamic power

General Description

The NC7SP38 is a single 2-Input NAND Gate with open drain output stage from Fairchild's Ultra Low Power (ULP) Series of TinyLogic[®]. Ideal for applications where battery life is critical, this product is designed for ultra low power consumption within the V_{CC} operating range of 0.9V to 3.6V V_{CC}.

The internal circuit is composed of a minimum of inverter stages including the output buffer, to enable ultra low static and dynamic power.

The NC7SP38, for lower drive requirements, is uniquely designed for optimized power and speed, and is fabricated with an advanced CMOS technology to achieve best in class speed operation while maintaining extremely low CMOS power dissipation.

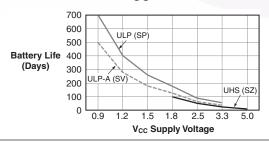
Ordering Information

Order Number	Package Number	Package Code Top Mark	Package Description	Supplied As
NC7SP38P5X	MAA05A	P38	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3k Units on Tape and Reel
NC7SP38L6X	MAC06A	K7	6-Lead MicroPak, 1.0mm Wide	5k Units on Tape and Reel



All packages are lead free per JEDEC: J-STD-020B standard.

Battery Life vs. V_{CC} Supply Voltage



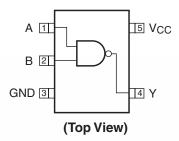
TinyLogic ULP and ULP-A with up to 50% less power consumption can extend your battery life significantly.

Battery Life = (V_{battery} x I_{battery} x 0.9) / (P_{device}) / 24hrs/day Where, $P_{device} = (I_{CC} \times V_{CC}) + (C_{PD} + C_L) \times V_{CC}^2 \times f$

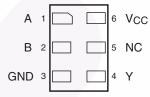
Assumes ideal 3.6V Lithium Ion battery with current rating of 900mAH and derated 90% and device frequency at 10MHz, with $C_L = 15pF$ load.

Connection Diagrams

Pin Assignment for SC70



Pad Assignments for MicroPak



(Top Through View)

Logic Symbol



Function Table

$$Y = \overline{AB}$$

Inp	uts	Output
Α	В	Y
L	L	*H
L	Н	*H
Н	L	*H
Н	Н	L

H = HIGH Logic Level

L = LOW Logic Level

*H = HIGH Impedance Output State (Open Drain)

Pin Description

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

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating
V _{CC}	Supply Voltage	-0.5V to +4.6V
V _{IN}	DC Input Voltage	-0.5V to +4.6V
V _{OUT}	DC Output Voltage HIGH or LOW State ⁽¹⁾ V _{CC} = 0V	-0.5V to V _{CC} +0.5V -0.5V to +4.6V
I _{IK}	DC Input Diode Current @ V _{IN} < 0V	-50mA
I _{OK}	DC Output Diode Current	
	V _{OUT} < 0V	-50mA
	V _{OUT} > V _{CC}	+50mA
I _{OH} /I _{OL}	DC Output Source/Sink Current	±50mA
I _{CC} or Ground	DC V _{CC} or Ground Current per Supply Pin	±50mA
T _{STG}	Storage Temperature Range	−65°C to +150°C
TJ	Junction Temperature Under Bias	150°C
T _L	Junction Lead Temperature (Soldering, 10 seconds)	260°C
P _D	Power Dissipation @ +85°C SC70-5 Micropak-6	150mW 130mW

Recommended Operating Conditions⁽²⁾

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Rating
V _{CC}	Supply Voltage	0.9V to 3.6V
V _{IN}	Input Voltage	0V to 3.6V
V _{OUT}	Output Voltage	
	HIGH or LOW State	0V to V _{CC}
	$V_{CC} = 0V$	0V to 3.6V
I _{OH} /I _{OL}	Output Current in I _{OH} /I _{OL}	
	$V_{CC} = 3.0V \text{ to } 3.6V$	±2.6mA
	$V_{CC} = 2.3V \text{ to } 2.7V$	±2.1mA
	$V_{CC} = 1.65V$ to 1.95V	±1.5mA
	$V_{CC} = 1.40V \text{ to } 1.60V$	±1mA
	$V_{CC} = 1.10V \text{ to } 1.30V$	±0.5mA
	$V_{CC} = 0.9V$	±20µA
T _A	Free Air Operating Temperature	-40°C to +85°C
Δt/ΔV	Minimum Input Edge Rate @ V _{IN} = 0.8V to 2.0V, V _{CC} = 3.0V	10ns/V
θ_{JA}	Thermal Resistance	
	SC70-5	425°C/W
	Micropak-6	500°C/W

Notes:

- 1. IO Absolute Maximum Rating must be observed.
- 2. Unused inputs must be held HIGH or LOW. They may not float.

DC Electrical Characteristics

				$T_A =$					
Symbol				+2	5°C	-40°C t	o +85°C	1	
	Parameter	V _{CC} (V)	Conditions	Min.	Max.	Min.	Max.	Units	
V _{IH}	HIGH Level	0.90		0.65 x V _{CC}		0.65 x V _{CC}		V	
	Input Voltage	1.10 ≤ V _{CC} ≤ 1.30		0.65 x V _{CC}		0.65 x V _{CC}		ĺ	
		1.40 ≤ V _{CC} ≤ 1.60		0.65 x V _{CC}		0.65 x V _{CC}			
		1.65 ≤ V _{CC} ≤ 1.95		0.65 x V _{CC}		0.65 x V _{CC}			
		2.30 ≤ V _{CC} ≤ 2.70		1.6		1.6			
		$3.00 \le V_{CC} \le 3.60$		2.1		2.1			
V _{IL}	LOW Level	0.90			0.35 x V _{CC}		0.35 x V _{CC}	V	
	Input Voltage	1.10 ≤ V _{CC} ≤ 1.30			0.35 x V _{CC}		0.35 x V _{CC}		
		1.40 ≤ V _{CC} ≤ 1.60			0.35 x V _{CC}		0.35 x V _{CC}		
		1.65 ≤ V _{CC} ≤ 1.95			0.35 x V _{CC}		0.35 x V _{CC}		
		2.30 ≤ V _{CC} ≤ 2.70			0.7		0.7		
		$3.00 \le V_{CC} \le 3.60$			0.9		0.9		
V _{OL} LOW Level		0.90	$I_{OL} = 20\mu A$		0.1		0.1	V	
	Output Voltage	$1.10 \le V_{CC} \le 1.30$			0.1		0.1		
	7	1.40 ≤ V _{CC} ≤ 1.60			0.1	\.	0.1		
		1.65 ≤ V _{CC} ≤ 1.95			0.1		0.1		
		$2.30 \le V_{CC} \le 2.70$			0.1		0.1		
		$3.00 \le V_{CC} \le 3.60$			0.1		0.1		
		$1.10 \le V_{CC} \le 1.30$	$I_{OL} = 0.5 \text{mA}$		0.30 x V _{CC}		0.30 x V _{CC}		
		1.40 ≤ V _{CC} ≤ 1.60	I _{OL} = 1mA		0.31		0.37		
		1.65 ≤ V _{CC} ≤ 1.95	I _{OL} = 1.5mA		0.31		0.35		
		$2.30 \le V_{CC} \le 2.70$	$I_{OL} = 2.1 \text{mA}$		0.31		0.33		
		$3.00 \le V_{CC} \le 3.60$	$I_{OL} = 2.6 \text{mA}$		0.31		0.33		
I _{IN}	Input Leakage Current	0.90 to 3.60	$0 \le V_I \le 3.6V$		±0.1		±0.5	μA	
I _{OFF}	Power Off Leakage Current	0	$0 \le (V_I, V_O) \le 3.6V$		0.5		0.5	μA	
I _{CC}	Quiescent Supply Current	0.90 to 3.60	$V_I = V_{CC}$ or GND		0.9		0.9	μA	

AC Electrical Characteristics

				Τ _Δ	(= +25	°C	T _A = -			Figure
Symbol	Parameter	V _{CC} (V)	Conditions	Min.	Тур.	Max.	Min.	Max.	Units	Number
t _{PZL} , t _{PLZ}	Propagation Delay	0.9	C _L = 10pF,		24				ns	Figure 1
		$1.10 \le V_{CC} \le 1.30$	$R_{U} = 5,000\Omega,$ $R_{D} = 5,000\Omega$	4.0	9	18.7	3.5	30.9		Figure 2
		$1.40 \le V_{CC} \le 1.60$	- TCD = 0,00022	2.0	6	12.4	1.5	13.9		
		$1.65 \le V_{CC} \le 1.95$		1.5	5	9.6	1.0	12.1		
		$2.30 \le V_{CC} \le 2.70$		1.0	4	9.0	0.8	10.0		
		$3.00 \le V_{CC} \le 3.60$		1.0	3	8.7	0.5	9.0		
		0.90	C _L = 15pF,		27				ns	Figure 1
		$1.10 \le V_{CC} \le 1.30$	$R_{\text{U}} = 5,000\Omega,$ $R_{\text{D}} = 5,000\Omega$	5.0	10	20.0	4.5	33.9		Figure 2
		$1.40 \le V_{CC} \le 1.60$	7 ND = 0,00022	3.0	7	13.3	2.5	16.0		
		$1.65 \le V_{CC} \le 1.95$		2.0	5	10.3	2.0	12.6		
		$2.30 \le V_{CC} \le 2.70$		1.5	4	9.4	1.0	10.2		
		$3.00 \le V_{CC} \le 3.60$		1.0	3	9.1	0.5	9.7		
		0.90	C _L = 30pF,		34				ns	Figure 1
	97	$1.10 \le V_{CC} \le 1.30$	$R_{\rm U} = 5,000\Omega,$ $R_{\rm D} = 5,000\Omega$	6.0	12	24.0	5.0	43.0		Figure 2
	7	$1.40 \le V_{CC} \le 1.60$	7 ND = 0,00022	4.0	8	16.0	3.0	18.0		
		$1.65 \le V_{CC} \le 1.95$		2.0	6	12.0	2.0	14.0		
		$2.30 \le V_{CC} \le 2.70$		1.0	5	11.0	1.0	12.0		
		$3.00 \le V_{CC} \le 3.60$		0.8	4	10.0	0.5	11.0		
C _{IN}	Input Capacitance	0			2.0				pF	
C _{OUT}	Output Capacitance	0			4.0				pF	
C _{PD}	Power Dissipation Capacitance	0.9 to 3.60	$V_I = 0V \text{ or } V_{CC},$ f = 10MHz		6				pF	

AC Loading and Waveforms

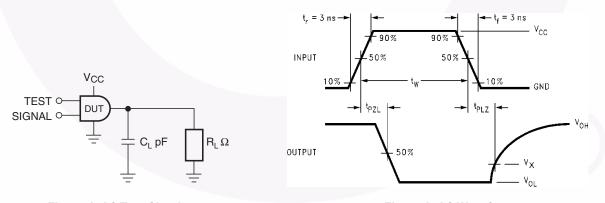


Figure 1. AC Test Circuit

Figure 2. AC Waveforms

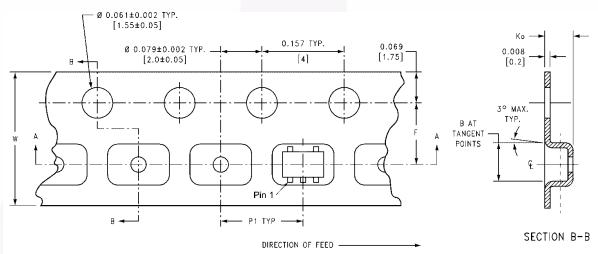
	V _{CC}						
Symbol	3.3V ± 0.3V	2.5V ± 0.2V	1.8V ± 0.15V	1.5V ± 0.1V	1.2V ± 0.1V	0.9V	
V _{mi}	1.5V	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	
V _x	V _{OL} + 0.3V	V _{OL} + 0.15V	V _{OL} + 0.15V	V _{OL} + 0.1V	V _{OL} + 0.1V	V _{OL} + 0.1V	

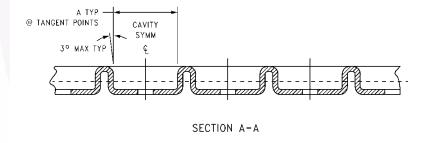
Tape and Reel Specification

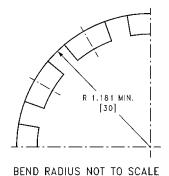
Tape Format for SC70

Package Designator	Tape Section	Number Cavities	Cavity Status	Cover Tape Status
P5X	Leader (Start End)	125 (typ.)	Empty	Sealed
	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (typ.)	Empty	Sealed

Tape Dimension inches (millimeters)





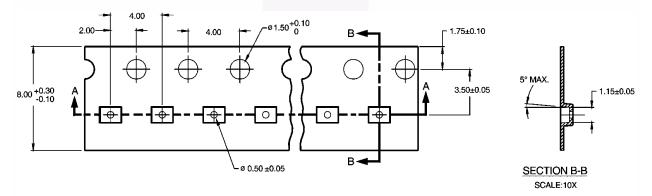


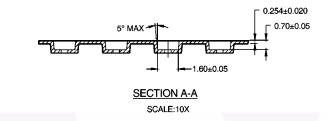
Tape and Reel Specification (Continued)

Tape Format for MicroPak

Package Designator	Tape Section	Number Cavities	Cavity Status	Cover Tape Status	
L6X	Leader (Start End)	125 (typ.)	Empty	Sealed	
	Carrier	5000	Filled	Sealed	
	Trailer (Hub End)	75 (typ.)	Empty	Sealed	

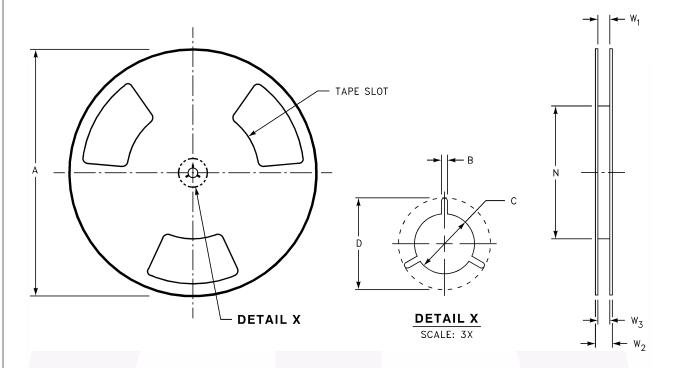
Tape Dimension millimeters





Tape and Reel Specification (Continued)

Reel Dimension for MicroPak inches (millimeters)



Tape Size	Α	В	С	D	N		W ₁	W ₂	W_3
8mm	7.0	0.059	0.512	0.795	2.165	0.33	31 +0.059/–0.000	0.567	W1 +0.078/-0.039
	(177.8)	(1.50)	(13.00)	(20.20)	(55.00)	(8.	40 +1.50/–0.00)	(14.40)	(W1 +2.00/-1.00)

Physical Dimensions

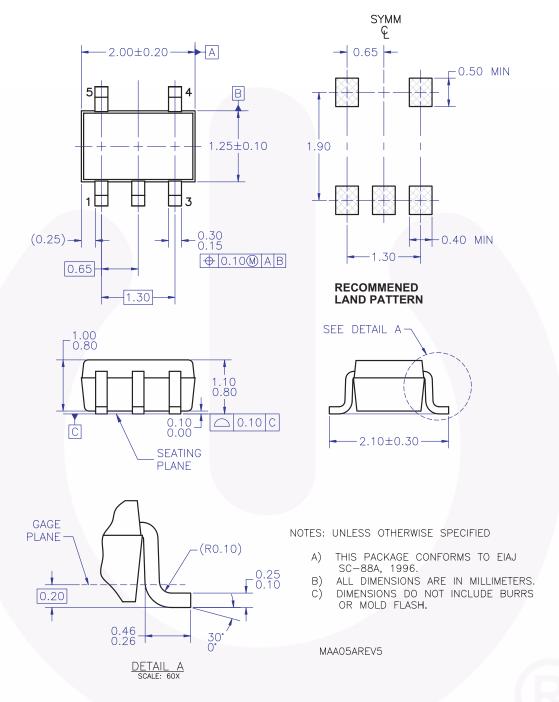
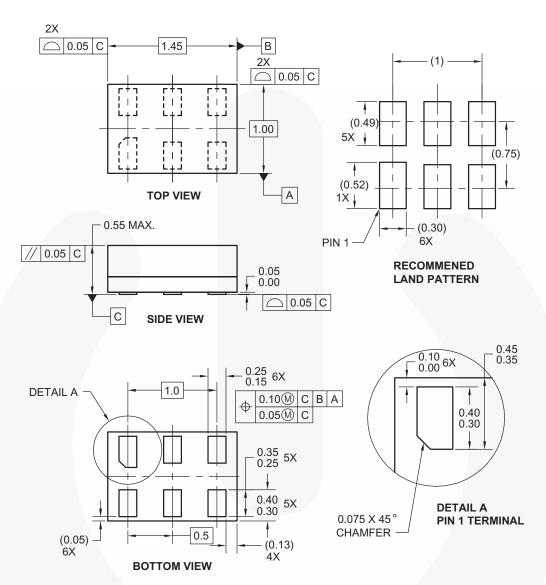


Figure 3. 5-Lead SC70, EIAJ SC-88a, 1.25mm Wide

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Physical Dimensions (Continued)



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- 1. CONFORMS TO JEDEC STANDARD M0-252 VARIATION UAAD
- 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-1994

MAC06AREVC

Figure 4. 6-Lead MicroPak, 1.0mm Wide

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Definition of Terms

20		
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ПОСТАВКА ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

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Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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