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September 2009

NC7SZ38 TinyLogic[®] UHS 2-Input NAND Gate, Open Drain Output

Features

- Ultra-High Speed: t_{PD} 2.4ns (Typical) into 50pF at 5V V_{CC}
- Open Drain Output Stage for OR Tied Applications
- High Output Sink Drive: 24mA at 3V V_{CC}
- Broad V_{CC} Operating Range: 1.65V to 5.5V
- Matches Performance of LCX Operated at 3.3V V_{CC}
- Power Down High-Impedance Inputs/Outputs
- Over-Voltage Tolerance Inputs Facilitate 5V to 3V Translation
- Proprietary Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Space-Saving SOT23 and SC70 Packages

Description

The NC7SZ38 is a single 2-Input NAND gate with open drain output stage from Fairchild's Ultra-High Speed Series of TinyLogic. The device is fabricated with advanced CMOS technology to achieve ultra-high speed with high output drive while maintaining low static power dissipation over a very broad $V_{\rm CC}$ operating range. The device is specified to operate over the 1.65V to 5.5V $V_{\rm CC}$ range. The inputs and output are high impedance when $V_{\rm CC}$ is 0V. Inputs tolerate voltages up to 6V independent of $V_{\rm CC}$ operating voltage. The open drain output stage tolerates voltages up to 6V independent of $V_{\rm CC}$ when in the high impedance state.

Ordering Information

Part Number	Top Mark	Eco Status	Package	Packing Method
NC7SZ38M5X	7Z38	RoHS	5-Lead SOT23, JEDEC MO-178 1.6mm	3000 Units on Tape & Reel
NC7SZ38P5X	Z38	RoHS	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SZ38L6X	A6	RoHS	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SZ38FHX	A6	Green	6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

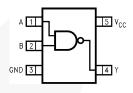
For Fairchild's definition of Eco Status, please visit: http://www.fairchildsemi.com/company/green/rohs_green.html.

Connection Diagrams



Figure 1. Logic Symbol

Pin Configurations



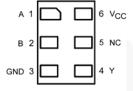


Figure 2. SC70 and SOT23 (Top View)

Figure 3. MicroPak™ (Top Through View)

Pin Definitions

Pin # SC70 / SOT23	Pin # MicroPak	Name	Description
1	1	A	Input
2	2	В	Input
3	3	GND	Ground
4	4	Y	Output
5	6	V _{CC}	Supply Voltage
	5	NC	No Connect

Function Table

Y=/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

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	Para	ameter	Min.	Max.	Unit
V _{CC}	Supply Voltage		-0.5	6.0	V
V _{IN}	DC Input Voltage		-0.5	6.0	V
V _{OUT}	DC Output Voltage		-0.5	6.0	V
1	DC Innut Diada Current	V _{IN} < -0.5V		-50	A
I _{IK}	DC Input Diode Current	$V_{IN} > 6.0V$		+20	- mA
	DC Output Diada Cumant	V _{OUT} < -0.5V		-50	A
l _{ok}	DC Output Diode Current	$V_{OUT} > 6V, V_{CC} = GND$		+20	mA
I _{OUT}	DC Output Current			+50	mA
I _{CC} or I _{GND}	DC V _{CC} or Ground Current			±50	mA
T _{STG}	Storage Temperature Range		-65	+150	°C
TJ	Junction Temperature Under B	ias		+150	°C
TL	Junction Lead Temperature (S	oldering, 10 Seconds)		+260	°C
		SOT-23		200	
D	Davida Diagination at 10500	SC70-5		150	\/
P_D	Power Dissipation at +85°C	MicroPak-6	1	130	mW
		MicroPak2-6		120	
FCD	Human Body Model, JEDEC:JE	EDEC:JESD22-A114		4000	\/
ESD	Charge Device Model, JEDEC:		2000	V	

Recommended Operating Conditions

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	Conditions	Min.	Max.	Unit	
V	Supply Voltage Operating		1.65	5.50	V	
V _{cc}	Supply Voltage Data Retention		1.50	5.50	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
V _{IN}	Input Voltage		0	5.5	V	
V _{OUT}	Output Voltage		0	5.5	V	
T _A	Operating Temperature		-40	+85	°C	
		V _{CC} =1.8V, 2.5V ± 0.2V	0	20	ns/V	
t _r , t _f	Input Rise and Fall Times	$V_{CC}=3.3V \pm 0.3V$	0	10		
		V_{CC} =5.0V ± 0.5V	0	5		
		SOT-23		300		
0	Thermal Resistance	SC70-5		425	°C/W	
θ_{JA}	Thermal Resistance	MicroPak-6		500	0/00	
		MicroPak2-6		560		

Note:

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

DC Electrical Characteristics

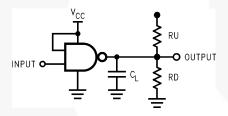
0	5	.,	0	T,	T _A =+25°C		T _A =-40	11	
Symbol	Parameter	V _{cc}	Conditions	Min.	Тур.	Max.	Min.	Max.	Units
\/	HIGH Level Input	1.65 to 1.95		0.75V _{CC}			0.75V _{CC}		V
V_{IH}	Voltage	2.30 to 5.50		0.70V _{CC}			0.70V _{CC}		V
VII	LOW Level Input	1.65 to 1.95				0.25V _{CC}		0.25V _{CC}	V
VIL	Voltage	2.30 to 5.50				0.30V _{CC}		0.30V _{CC}	V
I_{LKG}	HIGH Level Output Leakage	5.50	V _{IN} =V _{IL} , V _{OUT} =V _{CC} or GND			±5		±10	μΑ
		1.65			0.00	0.10		0.10	
		1.80			0.00	0.10		0.10	
		2.30	V _{IN} =V _{IH} , I _{OL} =100		0.00	0.10		0.10	
		3.00			0.00	0.10		0.10	
Vol	LOW Level	4.50			0.00	0.10		0.10	V
VOL	Output Voltage	1.65			0.80	0.24		0.24	V
		2.30	I _{OL} =8mA		0.10	0.30		0.30	
		3.00	I _{OL} =16mA		0.15	0.40		0.40	
)	3.00	I _{OL} =24mA		0.22	0.55		0.55	
		4.50	I _{OL} =32mA		0.22	0.55		0.55	
I _{IN}	Input Leakage Current	5.50	V _{IN} =5.5V, GND			±1		±10	μΑ
I _{OFF}	Power Off Leakage Current	0	V _{IN} or V _{OUT} =5.5V			1		10	μΑ
I _{CC}	Quiescent Supply Current	5.50	V _{IN} =5.5V, GND			2		20	μΑ

AC Electrical Characteristics

Cumbal	Parameter	V	Conditions	T,	₄ =+25°(;	T _A =-40 1	to +85°C	l lnito	Figure
Symbol	Parameter	V _{cc}	Conditions	Min.	Тур.	Max.	Min.	Max.	Units	Figure
		1.65		1.5	6.5	12.7	1.5	13.2		
		1.80	C _L =50pF,	1.5	5.4	10.5	1.5	11.0		
t _{PZL}		2.50 ± 0.20	RU=500 Ω , RD-500 Ω ,	0.8	3.5	7.0	0.8	7.5		
		3.30 ± 0.30	V _{IN} =2•V _{CC}	0.8	2.8	5.0	0.8	5.2		
	Description Delay	5.00 ± 0.50		0.5	2.2	4.3	0.5	4.5		Figure 4
	Propagation Delay	1.65	C_L =50pF, RU=500Ω, RD-500Ω.	1.5	5.5	12.7	1.5	13.2	ns	Figure 5
		1.80		1.5	4.6	10.5	1.5	11.0		
t _{PLZ}		2.50 ± 0.20		0.8	3.0	7.0	0.8	7.5		
		3.30 ± 0.30	V _{IN} =2•V _{CC}	0.8	2.1	6.0	0.8	5.2		
		5.00 ± 0.50		0.5	1.3	4.3	0.5	4.5		
C _{IN}	Input Capacitance	0.00			4.0				pF	
C _{OUT}	Output Capacitance	0.00			5.0				pF	
C	Power Dissipation	3.30			5.1				nE.	Figure 6
C_{PD}	Capacitance ⁽²⁾	5.00			7.3				pF	i igule 0

Note:

2. C_{PD} 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. C_{PD} is related to I_{CCD} dynamic operating current by the expression: I_{CCD}=(C_{PD})(V_{CC})(f_{IN})+(I_{CC}static).



Note:

 C_L includes load and stray capacitance. Input PRR=10MHz t_w=500ns.

Figure 4. AC Test Circuit

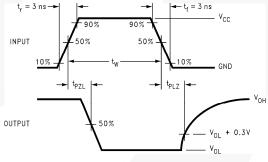
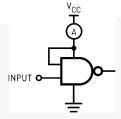


Figure 5. AC Waveforms



Note:

4. Input=AC Waveform; t_r=t_f=1.8ns; PRR=10MHz; Duty Cycle=50%.

Figure 6. Test Circuit

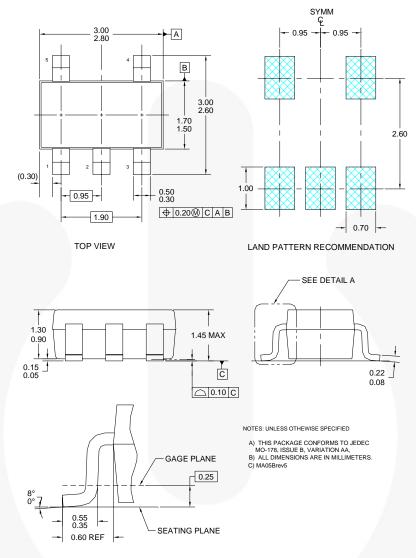


Figure 7. 5-Lead SOT23, JEDEC MO-178 1.6mm

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Tape and Reel Specifications

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications: http://www.fairchildsemi.com/packaging/SOT23-5L_tr.pdf.

Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status
	Leader (Start End)	125 (Typical)	Empty	Sealed
M5X	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed

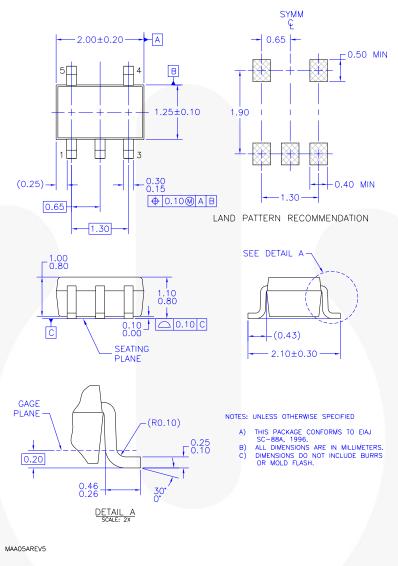


Figure 8. 5-Lead, SC70, EIAJ SC-88a, 1.25mm Wide

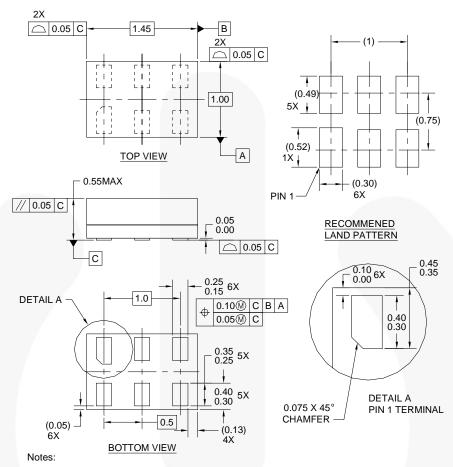
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Tape and Reel Specifications

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Package Designator Tape Sec		Cavity Number	Cavity Status	Cover Type Status
	Leader (Start End)	125 (Typical)	Empty	Sealed
P5X	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed



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

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Figure 9. 6-Lead, MicroPak™, 1.0mm Wide

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

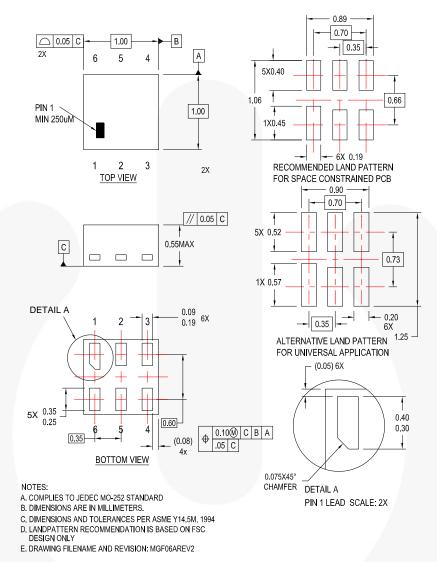


Figure 10. 6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch

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Package Designator Tape Section		Cavity Number	Cavity Status	Cover Type Status
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FHX	Carrier	5000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed





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- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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