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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_{CC} operating range. The device is specified to operate over the 1.65V to 5.5V V_{CC} range. The inputs and output are high impedance when V_{CC} is 0V. Inputs tolerate voltages up to 6V independent of V_{CC} operating voltage. The open drain output stage tolerates voltages up to 6V independent of V_{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

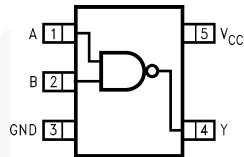


Figure 2. SC70 and SOT23 (Top View)

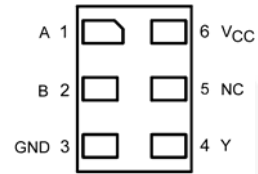


Figure 3. MicroPak™ (Top Through View)

Pin Definitions

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

Function Table

$$Y = \overline{AB}$$

Inputs		Output
A	B	Y
L	L	*H
L	H	*H
H	L	*H
H	H	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	Parameter	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	
I_{IK}	DC Input Diode Current	$V_{IN} < -0.5V$		-50	mA
		$V_{IN} > 6.0V$		+20	
I_{OK}	DC Output Diode Current	$V_{OUT} < -0.5V$		-50	mA
		$V_{OUT} > 6V, V_{CC}=GND$		+20	
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	$^{\circ}C$	
T_J	Junction Temperature Under Bias		+150	$^{\circ}C$	
T_L	Junction Lead Temperature (Soldering, 10 Seconds)		+260	$^{\circ}C$	
P_D	Power Dissipation at +85 $^{\circ}C$	SOT-23		200	mW
		SC70-5		150	
		MicroPak-6		130	
		MicroPak2-6		120	
ESD	Human Body Model, JEDEC:JESD22-A114		4000	V	
	Charge Device Model, JEDEC:JESD22-C101		2000		

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_{CC}	Supply Voltage Operating		1.65	5.50	V
	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	$^{\circ}C$
t_r, t_f	Input Rise and Fall Times	$V_{CC}=1.8V, 2.5V \pm 0.2V$	0	20	ns/V
		$V_{CC}=3.3V \pm 0.3V$	0	10	
		$V_{CC}=5.0V \pm 0.5V$	0	5	
θ_{JA}	Thermal Resistance	SOT-23		300	$^{\circ}C/W$
		SC70-5		425	
		MicroPak-6		500	
		MicroPak2-6		560	

Note:

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

DC Electrical Characteristics

Symbol	Parameter	V _{CC}	Conditions	T _A =+25°C			T _A =-40 to +85°C		Units
				Min.	Typ.	Max.	Min.	Max.	
V _{IH}	HIGH Level Input Voltage	1.65 to 1.95		0.75V _{CC}			0.75V _{CC}		V
		2.30 to 5.50		0.70V _{CC}			0.70V _{CC}		
V _{IL}	LOW Level Input Voltage	1.65 to 1.95				0.25V _{CC}		0.25V _{CC}	V
		2.30 to 5.50				0.30V _{CC}		0.30V _{CC}	
I _{LKG}	HIGH Level Output Leakage	5.50	V _{IN} =V _{IL} , V _{OUT} =V _{CC} or GND			±5		±10	µA
V _{OL}	LOW Level Output Voltage	1.65	V _{IN} =V _{IH} , I _{OL} =100		0.00	0.10		0.10	V
		1.80			0.00	0.10		0.10	
		2.30			0.00	0.10		0.10	
		3.00			0.00	0.10		0.10	
		4.50			0.00	0.10		0.10	
		1.65		0.80	0.24		0.24		
		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	µA
I _{OFF}	Power Off Leakage Current	0	V _{IN} or V _{OUT} =5.5V			1		10	µA
I _{CC}	Quiescent Supply Current	5.50	V _{IN} =5.5V, GND			2		20	µA

AC Electrical Characteristics

Symbol	Parameter	V _{CC}	Conditions	T _A =+25°C			T _A =-40 to +85°C		Units	Figure
				Min.	Typ.	Max.	Min.	Max.		
t _{PZL}	Propagation Delay	1.65	C _L =50pF, R _U =500Ω, R _D =500Ω, V _{IN} =2•V _{CC}	1.5	6.5	12.7	1.5	13.2	ns	Figure 4 Figure 5
		1.80		1.5	5.4	10.5	1.5	11.0		
		2.50 ± 0.20		0.8	3.5	7.0	0.8	7.5		
		3.30 ± 0.30		0.8	2.8	5.0	0.8	5.2		
		5.00 ± 0.50		0.5	2.2	4.3	0.5	4.5		
t _{PLZ}	Propagation Delay	1.65	C _L =50pF, R _U =500Ω, R _D =500Ω, V _{IN} =2•V _{CC}	1.5	5.5	12.7	1.5	13.2	ns	Figure 4 Figure 5
		1.80		1.5	4.6	10.5	1.5	11.0		
		2.50 ± 0.20		0.8	3.0	7.0	0.8	7.5		
		3.30 ± 0.30		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 _{PD}	Power Dissipation Capacitance ⁽²⁾	3.30			5.1				pF	Figure 6
		5.00			7.3					

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).

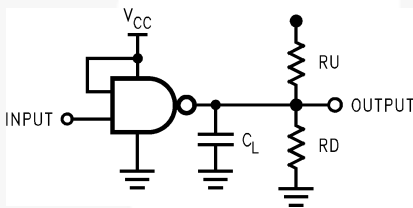


Figure 4. AC Test Circuit

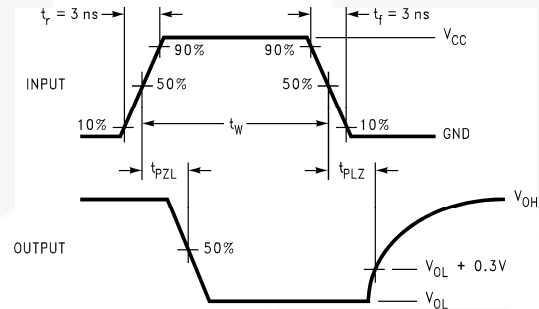


Figure 5. AC Waveforms

Note:

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

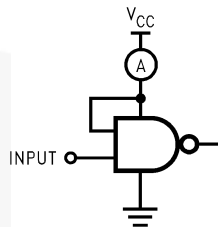


Figure 6. Test Circuit

Note:

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

Physical Dimensions



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
M5X	Leader (Start End)	125 (Typical)	Empty	Sealed
	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed

Physical Dimensions



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

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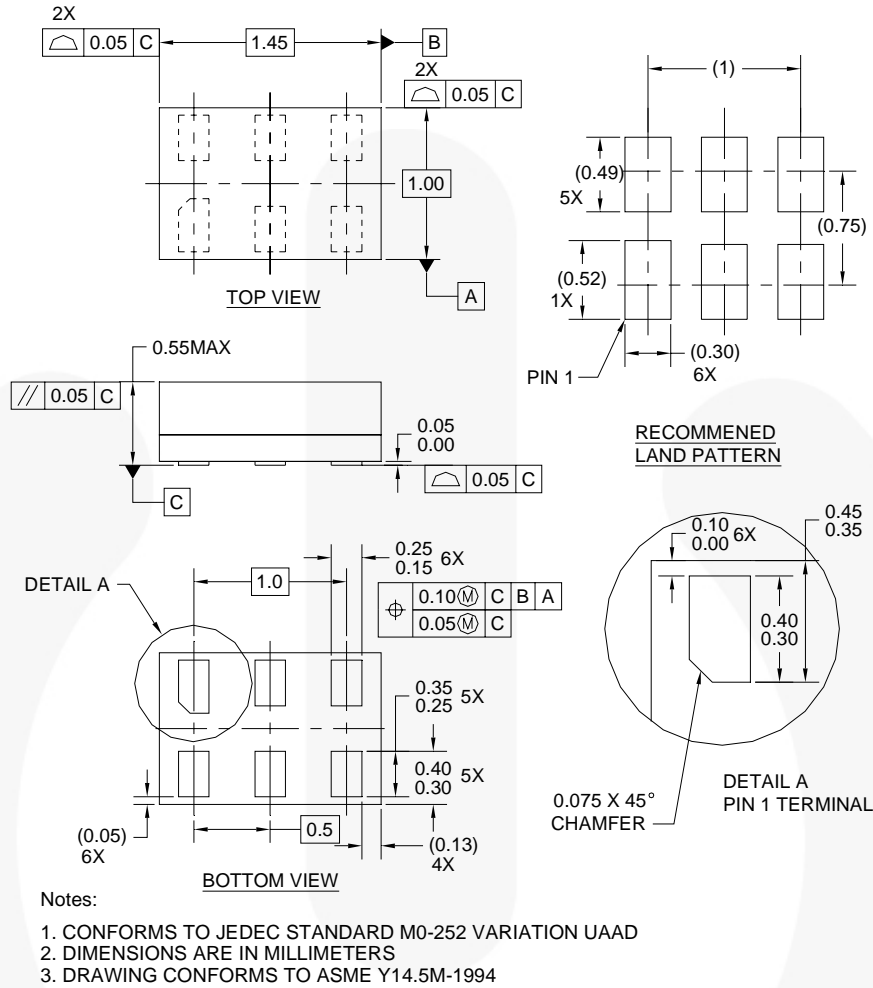
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Tape and Reel Specifications

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http://www.fairchildsemi.com/products/analog/pdf/sc70-5_tr.pdf

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

Physical Dimensions



MAC06AREVC

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

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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/products/logic/pdf/micropak_tr.pdf

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

Physical Dimensions

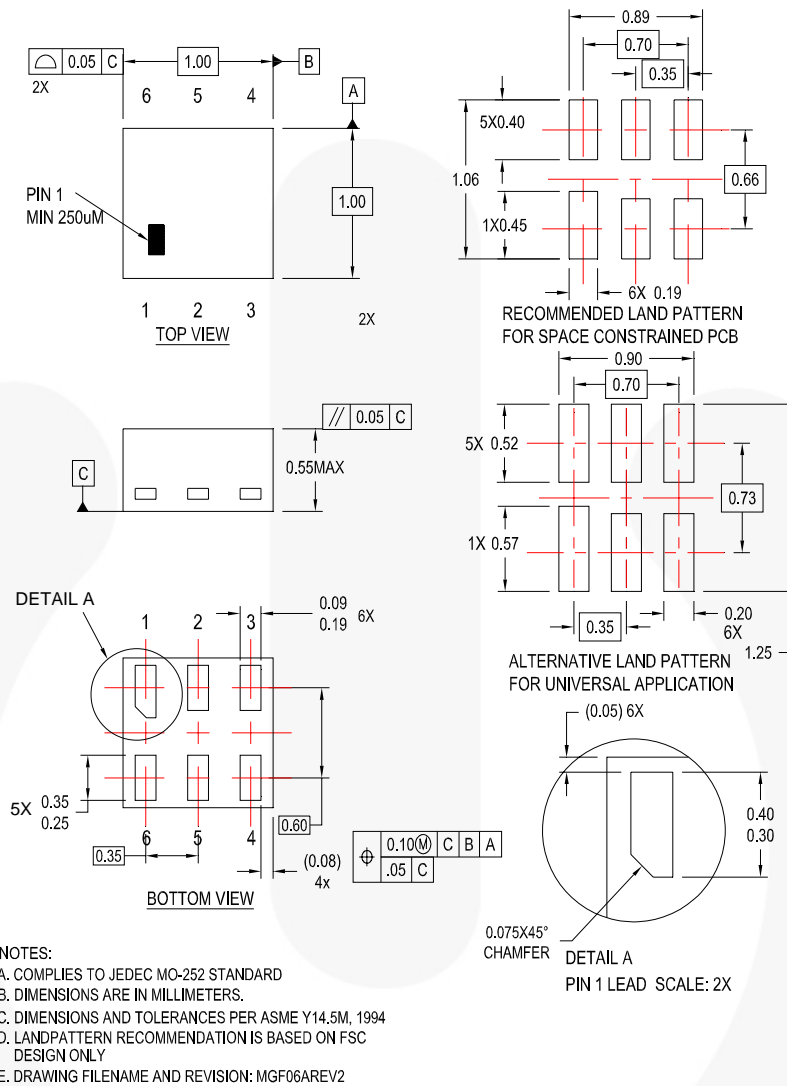


Figure 10. 6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch

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Tape and Reel Specifications

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http://www.fairchildsemi.com/packaging/MicroPAK2_6L_tr.pdf

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



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