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September 2009

NC7SZ126 TinyLogic[®] UHS Buffer with Three-State Output

Features

- Ultra-High Speed: t_{PD} 2.6ns (Typical) into 50pF at 5V V_{CC}
- High Output 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 NC7SZ126 is single buffer with three-State output from Fairchild's Ultra-High Speed (UHS) 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 broad $V_{\rm CC}$ operating range. The device is specified to operate over the 1.65V to 5.5V $V_{\rm CC}$ operating range. The inputs and output are high impedance above ground when $V_{\rm CC}$ is 0V. Inputs tolerate voltages up to 6V, independent of $V_{\rm CC}$ operating voltage. The output tolerates voltages above $V_{\rm CC}$ in the 3-State condition.

Ordering Information

Part Number	Top Mark	© Eco Status	Package	Packing Method
NC7SZ126M5X	7Z26	RoHS	5-Lead SOT23, JEDEC MO-178 1.6mm	3000 Units on Tape & Reel
NC7SZ126P5X	Z26	RoHS	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SZ126L6X	FF	RoHS	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SZ126FHX	FF	Green	6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

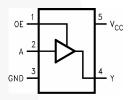
Por Fairchild's definition of Eco Status, please visit: http://www.fairchildsemi.com/company/green/rohs_green.html.

Connection Diagrams



Figure 1. Logic Symbol

Pin Configurations





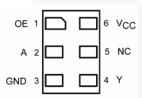


Figure 3. MicroPak (Top Through View)

Pin Definitions

Pin # SC70 / SOT23	Pin # MicroPak	Name	Description	
1	1	OE	Input	
2	2	A	Input	
3	3	GND	Ground	
4	4	Υ	Output	
5	6	Vcc	Supply Voltage	
	5	NC	No Connect	

Function Table

Inp	uts	Output
OE	Α	Out Y
Н	L	L
Н	Н	Н
L	X	Z

H = HIGH Logic Level

L = LOW Logic Level

X = HIGH or LOW Logic Level

Z = HIGH Impedance State

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
I	DC Input Diode Current	V _{IN} < -0.5V		-50	mA
I _{IK}	DC Input Diode Current	V _{IN} > 6.0V		+20	IIIA
1	DC Output Diada Current	V _{OUT} < -0.5V		-50	mA.
l _{OK}	DC Output Diode Current	$V_{OUT} > 6V, V_{CC} = GND$		+20	IIIA
l _{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
T_J	Junction Temperature Under B	ias		+150	°C
T_L	Junction Lead Temperature (Se	oldering, 10 Seconds)		+260	°C
		SOT-23		200	
P_{D}	Power Dissipation at +85°C	SC70-5		150	mW
FD	Fower Dissipation at +65 C	MicroPak-6	\ \	130	IIIVV
		MicroPak2-6	120		
ESD	Human Body Model, JEDEC:JESD22-A114			4000	V
ESD	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	
V CC	Supply Voltage Data Retention		1.50	5.50	7 °	
V _{IN}	Input Voltage		0	5.5	V	
V	Output Valtage	Active State	0	Vcc	V	
V _{OUT}	Output Voltage	Three-State	0	5.5	V	
T _A	Operating Temperature		-40	+85	°C	
		V _{CC} =1.8V, 2.5V ± 0.2V	0	20		
t _r , t _f	Input Rise and Fall Times	$V_{CC} = 3.3 V \pm 0.3 V$	0	10	ns/V	
		$V_{CC}=5.0V \pm 0.5V$	0	5		
		SOT-23		300		
0	Thermal Desistance	SC70-5		425	0000	
$ heta_{\sf JA}$	Thermal Resistance	MicroPak-6		500	°C/W	
		MicroPak2-6		560		

Note:

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

DC Electrical Characteristics

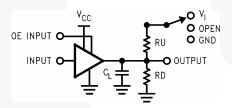
0	D	N/	0	T,	T _A =+25°C		T _A =-40 t	Units	
Symbol	symbol Parameter V _{CC}	Conditions	Min.	Тур.	Max.	Min.	Max.	Ullits	
1/	HIGH Level	1.65 to 1.95		0.75V _{CC}			0.75V _{CC}		\/
V_{IH}	Input Voltage	2.30 to 5.50		0.70V _{CC}			0.70V _{CC}		V
	LOW Level	1.65 to 1.95				0.25V _{CC}		0.25V _{CC}	\ /
V_{IL}	Input Voltage	2.30 to 5.50				0.30V _{CC}		0.30V _{CC}	V
		1.65		1.55	1.65		1.55		
		1.80		1.70	1.80		1.70		
		2.30	V _{IN} =V _{IH} , I _{OH} =-100µA	2.20	2.30		2.20		
		3.00		2.90	3.00		2.90		
	HIGH Level	4.50		4.40	4.50		4.40		V
V_{OH}	Output Voltage	1.65	I _{OH} =-4mA	1.29	1.52		1.29		V
		2.30	I _{OH} =-8mA	1.90	2.15		1.90		
		3.00	I _{OH} =-16mA	2.40	2.80		2.40		
		3.00	I _{OH} =-24mA	2.30	2.68		2.30		
		4.50	I _{OH} =-32mA	3.80	4.20		3.80		
		1.65			0.00	0.10		0.10	
	7	1.80			0.00	0.10		0.10	
		2.30	V _{IN} =V _{IL} ,I _{OL} =100µA		0.00	0.10		0.10	
		3.00			0.00	0.10		0.10	1
\/	LOW Level	4.50			0.00	0.10	A	0.10	V
V_{OL}	Output Voltage	1.65	I _{OL} =4mA		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	0 to 5.5	V _{IN} =5.5V, GND			±1		±10	μΑ
loz	3-STATE Output Leakage	0 to 5.5	V _{IN} =V _{IH} or V _{IL} V _O =V _{CC} or GND			±1		±10	μΑ
I _{OFF}	Power Off Leakage Current	0	V _{IN} or V _{OUT} =5.5V			1		10	μΑ
Icc	Quiescent Supply Current	1.65 to 5.50	V _{IN} =5.5V, GND			2		20	μA

AC Electrical Characteristics

Cumbal	Parameter	ameter V _{CC} Conditions	Conditions		Γ _A =25°	С	T _A =-40 1	to +85°C	Units	Figure
Symbol Paramet	Parameter	V _{CC}	Conditions	Min.	Тур.	Max.	Min.	Max.		
		1.65		2.0	6.4	13.2	2.0	13.8		
		1.80	C _L =15pF,	2.0	5.3	11.0	2.0	11.5]	
		2.50 ± 0.20	$R_D=1M\Omega$	8.0	3.4	7.5	8.0	8.0		
$t_{PLH,}t_{PHL}$	Propagation Delay	3.30 ± 0.30	S ₁ =OPEN	0.5	2.5	5.2	0.5	5.5	ns	Figure 4
7 211, 7 112	., ., .,	5.00 ± 0.50		0.5	2.1	4.5	0.5	4.8		Figure 6
		3.30 ± 0.30	C _L =50pF,	1.5	3.2	5.7	1.5	6.0		
		5.00 ± 0.50	$R_D=500\Omega$ $S_1=OPEN$	0.8	2.6	5.0	0.8	5.3		
		1.65	$\begin{array}{l} C_L \!\!=\!\! 50 p F, \\ R_D \!\!=\!\! 500 \Omega \\ RU \!\!=\!\! 500 \Omega \\ S_1 \!\!=\!\! GND \text{ for } t_{PZH} \\ S_1 \!\!=\!\! V_{IN} \text{ for } t_{PZL} \\ V_{IN} \!\!=\!\! 2^{\bullet} \!$	2.0	8.4	15.0	2.0	15.6	ns	
		1.80		2.0	6.1	11.5	2.0	12.0		
$t_{PZL,}t_{PZH}$	Output Enable Time	2.50 ± 0.20		1.5	3.8	8.0	1.5	8.5		
		3.30 ± 0.30		1.5	3.2	5.7	1.5	6.0		
		5.00 ± 0.50		0.8	2.3	5.0	8.0	5.3		Figure 4
		1.65	C _L =50pF,	2.0	6.5	13.2	2.0	14.5	115	Figure 6
		1.80	$R_D=500\Omega$	2.0	5.6	11.0	2.0	12		
$t_{\text{PLZ}}, t_{\text{PHZ}}$	Output Disable Time	2.50 ± 0.20	RU=500Ω S ₁ =GND for t_{PHZ}	1.0	4.0	8.0	1.0	8.5		
		3.30 ± 0.30	$S_1 = V_{IN}$ for t_{PLZ}	1.0	3.5	5.7	1.0	6.0		
F	5.00 ± 0.50	V _{IN} =2•V _{CC}	0.5	2.5	4.7	0.5	5.0			
C _{IN}	Input Capacitance	0.00			4	_			pF	
C _{OUT}	Output Capacitance	0.00			8				pF	
C_{PD}	Power Dissipation	3.30			17				pF	Figure 5
OPD	Capacitance ⁽²⁾	5.00			24				ρı	i igule 3

Note:

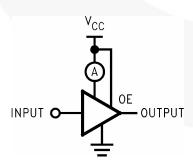
 C_{PD} is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output lading and operating at 50% duty cycle. C_{PD} is related to I_{CCD} dynamic operating current by the expression: I_{CCD}=(C_{PD})(V_{CC})(f_{IN})+(I_{CC}static).



Note:

3. C_L includes load and stray capacitance. Input PRR=1.0MHz, t_W =500ns

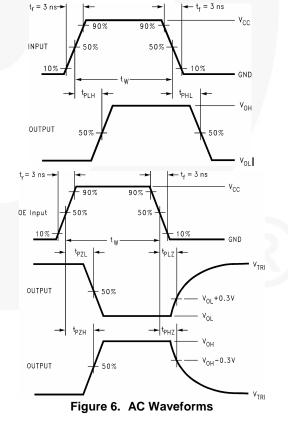
Figure 4. AC Test Circuit



Note:

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

Figure 5. I_{CCD} Test Circuit



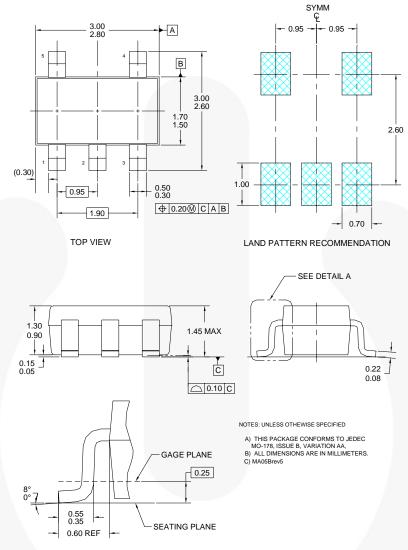


Figure 7. 5-Lead SOT23, JEDEC MO-178 1.6mm

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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

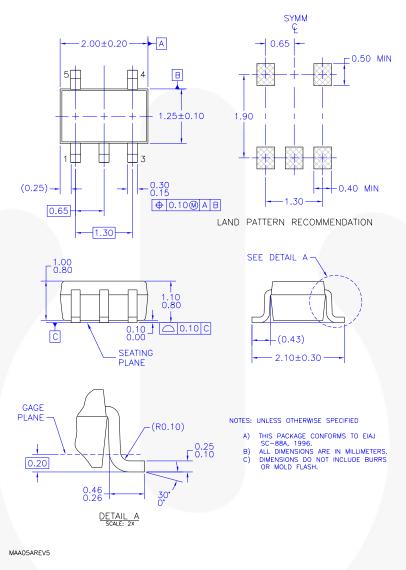


Figure 8. 5-Lead, SC70, EIAJ SC-88a, 1.25mm Wide

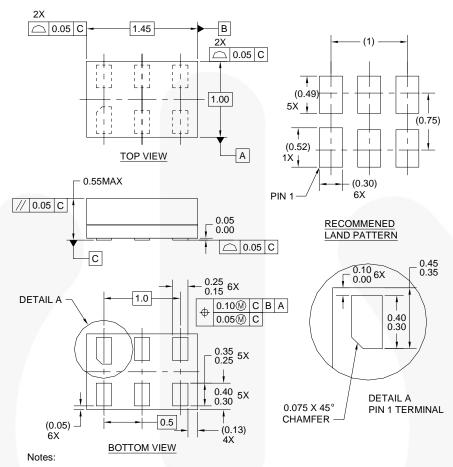
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Package Designator	Tape Section	Cavity Number	Cavity Status	Cover Type Status	
	Leader (Start End)	125 (Typical)	Empty	Sealed	
P5X	Carrier	3000	Filled	Sealed	
	Trailer (Hub End)	75 (Typical)	Empty	Sealed	



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

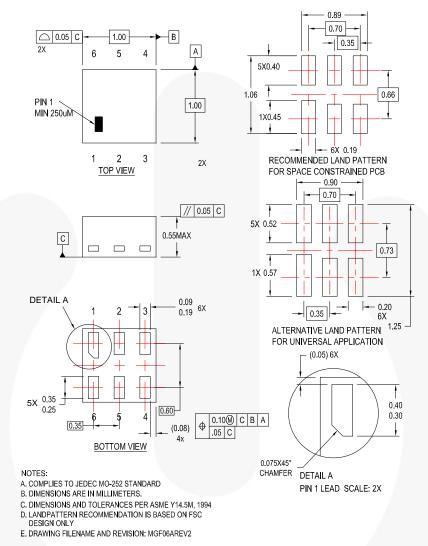


Figure 10.6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch

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





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