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December 2010

NC7SVL08 TinyLogic[®] Low-I_{CCT} Two-Input AND Gate

Features

- 0.9V to 3.6V V_{CC} Supply Operation
- 3.6V Over-Voltage Tolerant I/Os at V_{CC} from 0.9V to 3.6V
- Power-Off High-Impedance Inputs and Outputs
- Proprietary Quiet Series[™] Noise / EMI Reduction Circuitry
- Ultra-Small MicroPak[™] Packages
- Ultra-Low Dynamic Power

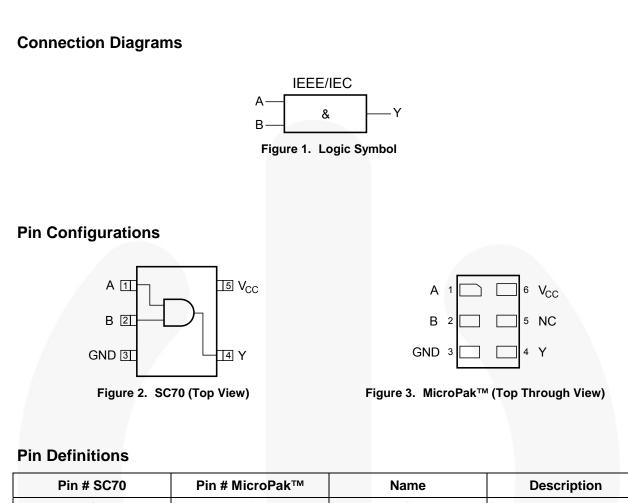
The NC7SVL08 is a single two-input AND gate with a low-l_{CCT} input design from Fairchild's Ultra-Low Power (ULP-A) series of TinyLogic[®]. The NC7SVL08 features very low quiescent current, even when the input voltage is lower than the V_{CC} supply. This feature services mobile handset applications very well, allowing for direct interface with baseband processor general-purpose I/Os. Since mobile devices rely on a battery supply, the NC7SVL08 facilitates lower power consumption in mixed-voltage rail environments.

Description

This product is designed on an advanced CMOS technology for a wide low-voltage operating range (0.9V to 3.6V V_{CC}), high drive needs (up to 24mA), and speed (maximum propagation delay of 3.5ns, V_{CC}=3.3V). It achieves this performance while maintaining low CMOS power dissipation.

Ordering Information

Part Number	Top Mark	Package	Packing Method
NC7SVL08P5X	L08	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SVL08L6X	CE	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SVL08FHX	CE	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel



Pin # SC70	Pin # MicroPak™	Name	Description
1	1	A	Input
2	2	В	Input
3	3	GND	Ground
4	4	Y	Output
	5	NC	No Connect
5	6	Vcc	Supply Voltage

Function Table

Y = AB

Inp	Output	
A	В	Y
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

L = Low Logic Level

H = High Logic Level

NC7SVL08 — TinyLogic[®] Low-I_{CCT} Two-Input AND Gate

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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	4.6	V
VIN	DC Input Voltage		-0.5	4.6	V
Maxa		HIGH or LOW State ⁽¹⁾	-0.5	V _{CC} to +0.5	V
Vout	DC Output Voltage	V _{CC} =0V	-0.5	4.6	V
I _{IK}	DC Input Diode Current	V _{IN} < 0V		-50	mA
	DC Output Diada Current	V _{OUT} < 0V		-50	
loκ	DC Output Diode Current	$V_{OUT} > V_{CC}$		+50	mA
I _{OH} / I _{OL}	DC Output Source/Sink Curren	t		±50	mA
I_{CC} or I_{GND}	DC V _{CC} or Ground Current per	Supply Pin		±50	mA
T _{STG}	Storage Temperature Range		-65	+150	°C
TJ	Junction Temperature Under B	ias		+150	°C
TL	Junction Lead Temperature (Se	oldering, 10 Seconds)		+260	°C
		SC70-5		150	
PD	Power Dissipation at +85°C	MicroPak™-6		130	mW
		MicroPak2™-6		120	
ESD	Human Body Model	JEDEC: JESD22-A114		4000	V
ESD	Charged Device Model	JEDEC: JESD22-C101		2000	v

Note:

1. The I_o maximum rating must be observed.

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.

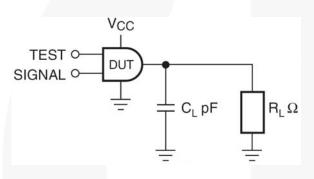
Symbol	Parameter	Conditions	Min.	Max.	Unit	
Vcc	Supply Voltage		0.9	3.6	V	
V _{IN}	Input Voltage ⁽²⁾		0	3.6	V	
V		HIGH or LOW State	0	Vcc	v	
V _{OUT}	Output Voltage	V _{CC} =0V	0	3.6	v	
		V _{CC} =3.0V to 3.6V		±24.0		
		V _{CC} =2.3V to 2.7V		±18.0		
1 /1		V _{CC} =1.65V to 1.95V		±6.0	mA	
I _{OH} / I _{OL}	Output Current in I _{OH} / I _{OL}	V _{CC} =1.40V to 1.60V		±4.0		
		V _{CC} =1.10V to 1.30V		±2.0		
		V _{CC} =0.9V		±0.1	μA	
T _A	Free Air Operating Temperature		-40	+85	°C	
Δt / ΔV	Minimum Input Edge Rate	V _{IN} =0.8V to 2.0V, V _{CC} =3.0V		10	ns/V	
		SC70-5		425		
θ_{JA}	Thermal Resistance	MicroPak™-6		500	°C/W	
		MicroPak2™-6		560		

Note:

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

.				T _A =2	25°C	T _A =-40	to 85°C	
Symbol	Parameter	Vcc	Conditions	Min.	Max.	Min.	Max.	Units
		0.90		0.65 x V _{CC}		$0.65 \times V_{CC}$		
	HIGH Level Input V⊮ Voltage	1.10 ≤ V _{CC} ≤ 1.30		0.65 x V _{CC}		$0.65 \times V_{CC}$		V
		$1.40 \le V_{CC} \le 1.60$		0.65 x V _{CC}		$0.65 \times V_{CC}$		
VIH		1.65 ≤ V _{CC} ≤ 1.95		0.9		0.9		
		$2.30 \le V_{CC} \le 2.70$		1.5		1.5		
		$2.70 \le V_{CC} \le 3.60$		1.5		1.5		
		0.90			0.25 x V _{CC}		0.25 x V _{CC}	
		1.10 ≤ V _{CC} ≤ 1.30			0.25 x V _{CC}		0.25 x V _{CC}	
	LOW Level Input	$1.40 \le V_{CC} \le 1.60$			0.25 x V _{CC}		0.25 x V _{CC}	
VIL	Voltage	$1.65 \le V_{CC} \le 1.95$			0.25 x V _{CC}		0.25 x V _{CC}	V
	r onago	$2.30 \le V_{CC} \le 2.70$			0.23 × VCC		0.23 x vcc	
		$2.30 \le V_{CC} \le 2.70$ $2.70 \le V_{CC} \le 3.60$						
				V 01	0.8	V 01	0.8	
		0.90	-	V _{CC} - 0.1		V _{CC} - 0.1		
		$1.10 \le V_{CC} \le 1.30$	- I _{OH} =-100µА	V _{CC} - 0.1		V _{CC} - 0.1		
		$1.40 \le V_{CC} \le 1.60$		V _{CC} - 0.2		V _{CC} - 0.2		
		$1.65 \le V_{CC} \le 1.95$		V _{CC} - 0.2		V _{CC} - 0.2		
		$2.30 \le V_{CC} \le 2.70$	-	V _{CC} - 0.2		V _{CC} - 0.2		
		$2.70 \le V_{CC} \le 3.60$		V _{CC} - 0.2		V _{CC} - 0.2		
	HIGH Level Output	$1.10 \le V_{CC} \le 1.30$	I _{OH} =-2mA	0.75 x V _{CC}		0.75 x V _{CC}		
Voh	Voltage	$1.40 \le V_{CC} \le 1.60$	I _{OH} =-4mA	0.75 x V _{CC}		0.75 x V _{CC}		
		$1.65 \le V_{CC} \le 1.95$	I _{он} =-6mA	1.25		1.25		
		$2.30 \le V_{CC} \le 2.70$		2.0		2.0		
		$2.30 \le V_{CC} \le 2.70$	I _{OH} =-12mA	1.8		1.8		
		$2.70 \le V_{CC} \le 3.60$		2.2		2.2		
		$2.30 \le V_{\rm CC} \le 2.70$	I _{OH} =-18mA	1.7		1.7		
		$2.70 \le V_{CC} \le 3.60$		2.4		2.4		
		$2.70 \leq V_{\rm CC} \leq 3.60$	I _{OH} =-24mA	2.2		2.2		
		0.90			0.10		0.10	
		$1.10 \le V_{CC} \le 1.30$			0.10		0.10	
		$1.40 \leq V_{CC} \leq 1.60$	Ι _{ΟL} =100μΑ		0.20		0.20	
		$1.65 \le V_{CC} \le 1.95$	10L-100µA		0.20		0.20	
		$2.30 \leq V_{\rm CC} \leq 2.70$			0.20		0.20	
		$2.70 \leq V_{\rm CC} \leq 3.60$			0.20		0.20	
V	LOW Level Output	$1.10 \le V_{CC} \le 1.30$	I _{OL} =2mA		$0.25 \times V_{CC}$		0.25 x V_{CC}	v
V _{OL}	Voltage	$1.40 \le V_{CC} \le 1.60$	I _{OL} =4mA		$0.25 \text{ x } V_{CC}$		0.25 x V _{CC}	v
		$1.65 \le V_{CC} \le 1.95$	I _{OL} =6mA		0.30		0.30	
		$2.30 \leq V_{\rm CC} \leq 2.70$			0.40		0.40	
		$2.70 \le V_{CC} \le 3.60$	I _{OL} =12mA		0.40		0.40	
		$2.30 \le V_{CC} \le 2.70$			0.60		0.60	
		$2.70 \le V_{CC} \le 3.60$	I _{OL} =18mA		0.40		0.40	
		$2.70 \le V_{CC} \le 3.60$	I _{OL} =24mA		0.55		0.55	
I _{IN}	Input Leakage Current	0.90 to 3.60	$0 \le V_{IN} \le 3.6V$		±0.1		±0.5	μA
I _{OFF}	Power Off Leakage Current	0	$0 \le (V_{IN}, V_O) \le$ 3.6V		0.5		0.5	μA
1	Quiescent Supply	0.00 to 2.60	$V_{IN}=V_{CC}$ or GND		0.9		0.9	
Icc	Current	0.90 to 3.60	$V_{CC} \le V_{IN} \le 3.6V$				±0.9	μA
	Increase in I _{CC} per	1.95	V _{IN} =0.9V		6		8	-
ICCT	Input	3.6	V _{IN} =1.5V	1	6		8	μA

Cumple of	Deverseter	N.	Conditions		T _A =25°	С	T _A =-40	to 85°C	1.1	-
Symbol Parameter	V _{CC} Conditi		Min.	Тур.	Max.	Min.	Max.	Units	Figure	
			C_L =15pF, R _L =1M Ω		45.0					
	L, t _{PLH} Propagation Delay	$1.10 \le V_{CC} \le 1.30$	C _L =15pF,	3.5	8.2	17.5	3.0	30.5		
t _{PHL} , t _{PLH}		$1.40 \leq V_{\rm CC} \leq 1.60$	$R_L=2k\Omega$	1.5	4.0	7.0	1.5	7.5	ns	Figure 4
		$1.65 \leq V_{\rm CC} \leq 1.95$		1.1	3.0	5.5	1.0	6.0		Figure 5
		$2.30 \leq V_{CC} \leq 2.70$	C _L =30pF, R _I =500Ω	0.6	2.2	4.0	0.6	4.5		
		$2.70 \leq V_{CC} \leq 3.60$	NL 00032	0.5	1.6	3.5	0.5	4.0		
C _{IN}	Input Capacitance	0			3				pF	
C_{PD}	Power Dissipation Capacitance	0.90 to 3.60	V _{IN} =0V or V _{CC} , f=10MHz		5				pF	



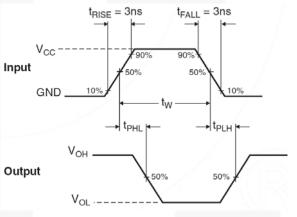
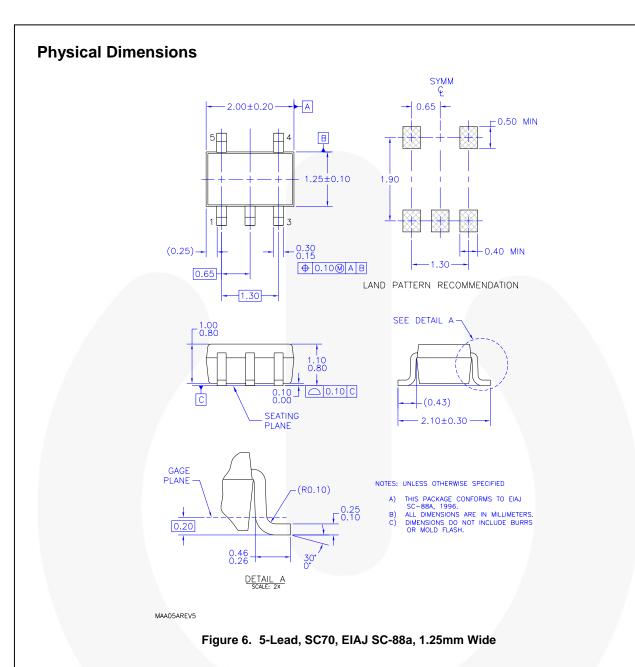


Figure 4. AC Test Circuit

Figure 5. AC Waveforms

Symbol	V _{cc}					
	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 _{mo}	1.5V	V _{CC} / 2				



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Tape and Reel Specifications

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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

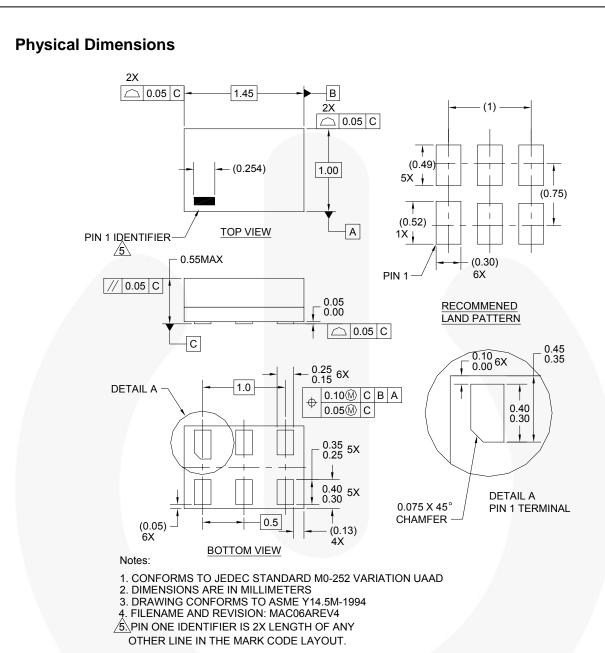


Figure 7. 6-Lead, MicroPak™, 1.0mm Wide

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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

NC7SVL08 — TinyLogic[®] Low-I_{CCT} Two-Input AND Gate

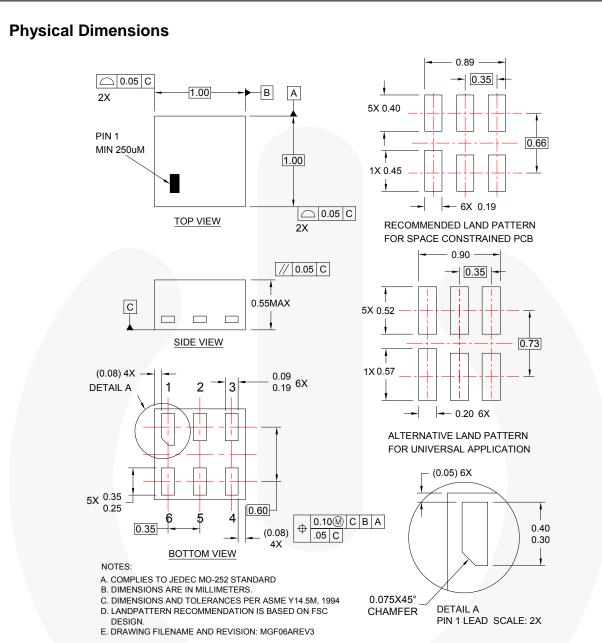


Figure 8. 6-Lead, MicroPak[™]2, 1x1mm Body, .35mm Pitch

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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

NC7SVL08 — TinyLogic[®] Low-I_{CCT} Two-Input AND Gate



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Datasheet Identification	Product Status	Definition		
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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.		
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