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NC7SV04 TinyLogic[®] ULP-A Inverter

Features

FAIRCHILD SEMICONDUCTOR

- 0.9V to 3.6V V_{CC} Supply Operation
- 3.6V Over-Voltage Tolerant I/Os at Vcc from 0.9V to 3.6V
- Extremely High Speed tPD
 - 1.5ns: Typical for 2.7V to 3.6V V_{CC}
 - 1.8ns: Typical for 2.3V to 2.7V V_{CC}
 - 2.0ns: Typical for 1.65V to 1.95V V_{CC}
 - 3.2ns: Typical for 1.4V to 1.6V V_{CC}
 - 6.0ns: Typical for 1.1V to 1.3V V_{CC}
 - 12.0ns: Typical for 0.9V V_{CC}
- Power-Off High-Impedance Inputs and Outputs
- High Static Drive (I_{OH}/I_{OL})
 - $\pm 24mA$ at 3.00V V_{CC}
 - $\pm 18 mA$ at 2.30V V_{CC}
 - $\pm 6mA$ at 1.65V V_{CC}
 - \pm 4mA at 1.4V V_{CC}
 - $\pm 2mA$ at 1.1V V_{CC}
 - $\pm 0.1 mA$ at 0.9V V_{CC}
- Uses Proprietary Quiet Series[™] Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak[™] Packages
- Ultra-Low Dynamic Power

Ordering Information

Part Number	Top Mark	Package	Packing Method
NC7SV04P5X	V04	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SV04L6X	F7	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SV04FHX	F7	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

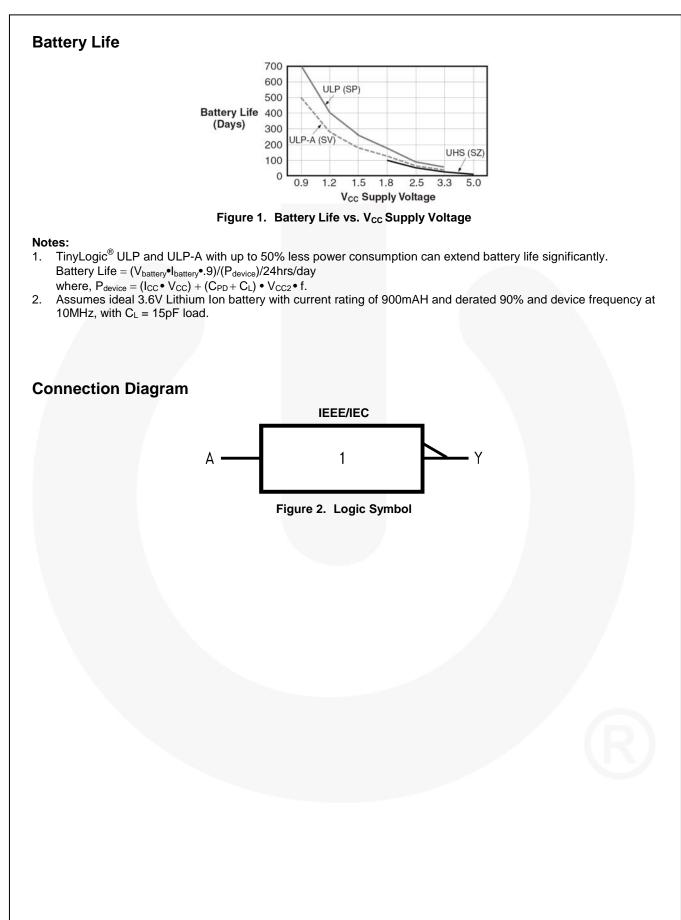
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MicroPak™ and Quiet Series™ are trademarks of Fairchild Semiconductor Corporation.

Description

The NC7SV04 is a single inverter from Fairchild's Ultra-Low Power (ULP-A) Series of TinyLogic[®]. ULP-A is ideal for applications that require extreme high speed, high drive, and low power. This product is designed for a wide low-voltage operating range (0.9V to 3.6V V_{CC}) and applications that require more drive and speed than the TinyLogic[®] ULP series, but still offer best-in-class, low-power operation.

The NC7SV04 is uniquely designed for optimized power and speed and is fabricated with an advanced CMOS technology to achieve high-speed operation while maintaining low CMOS power dissipation.



Pin Configurations

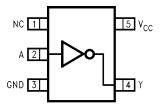


Figure 3. SC70 (Top View)

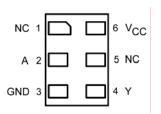


Figure 4. MicroPak™ (Top Through View)

Pin Definitions

Pin # SC70	Pin # MicroPak™	Name	Description
1	1, 5	NC	No Connect
2	2	А	Input
3	3	GND	Ground
4	4	Y	Output
5	6	V _{CC}	Supply Voltage

Function Table

Inputs	Output
A	Y
L	Н
Н	L

H = HIGH Logic Level

L = LOW Logic Level

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	meter	Min.	Max.	Unit
V _{CC}	Supply Voltage		-0.5	4.6	V
V _{IN}	DC Input Voltage		-0.5	4.6	V
M		HIGH or LOW State ⁽³⁾	-0.5	V _{CC} + 0.5	V
V _{OUT}	DC Output Voltage	$V_{CC} = 0V$	-0.5	4.6	v
I _{IK}	DC Input Diode Current	$V_{IN} < 0V$		-50	mA
I		V _{OUT} < 0V		-50	
I _{OK}	DC Output Diode Current	$V_{OUT} > V_{CC}$		+50	mA
I _{OH} /I _{OL}	DC Output Source/Sink Current		±50	mA	
I _{CC} or I _{GND}	DC V _{CC} or Ground Current per		±50	mA	
T _{STG}	Storage Temperature Range		-65	+150	°C
TJ	Junction Temperature Under Bi	as		+150	°C
TL	Junction Lead Temperature, Sc	Idering 10 Seconds		+260	°C
		SC70-5		150	
PD	Power Dissipation at +85°C	MicroPak [™] -6		130	mW
		MicroPak2 [™] -6		120	
FOD	Human Body Model, JEDEC:JE	SD22-A114		4000	
ESD	Charge Device Model, JEDEC:	JESD22-C101		2000	V

Note:

3. IO absolute 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	
V _{CC}	Supply Voltage		0.9	3.6	V	
V _{IN}	Input Voltage		0	3.6	V	
V		V _{CC} =0V	0	3.6	V	
Vout	Output Voltage	HIGH or LOW State	0	V _{cc}	V	
I _{OH} /I _{OL} Output		V _{CC} =3.0V to 3.6V		±24.0		
		V _{CC} =2.3V to 3.6V		±18.0	mA	
	Output Current in I _{OH} /I _{OL}	V _{CC} =1.65V to 1.95V	1	±6.0		
		V _{CC} =1.4V to 1.6V		±4.0		
		V _{CC} =1.1V to 1.3V		±2.0		
		V _{CC} =0.9V		±0.1		
T _A	Operating Temperature, Free Air		-40	+85	°C	
$\Delta t / \Delta V$	Minimum Input Edge Rate	V _{IN} =0.8V to 2.0, V _{CC} =3.0V		10	ns/V	
		SC70-5		425		
θ_{JA}	Thermal Resistance	MicroPak™-6		500	°C/W	
		MicroPak2 [™] -6		560		

Note:

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

			Conditions	T _A =25°C		T _A =-40	to 85°C	Units
Symbol Parameter	V _{cc}	Conditions	Min.	Max.	Min.	Max.		
		0.90		.65 x V _{CC}		$.65 \times V_{CC}$		
	$1.10 \leq V_{CC} \leq 1.30$.65 x V _{CC}		.65 x V _{CC}			
M	HIGH Level Input	$1.40 \leq V_{CC} \leq 1.60$.65 x V _{CC}		$.65 \times V_{CC}$		v
VIH	Voltage	$1.65 \leq V_{CC} \leq 1.95$.65 x V _{CC}		$.65 \times V_{CC}$		V
		$2.30 \leq V_{CC} \leq 2.70$		1.6		1.6		
		$2.70 \leq V_{CC} \leq 3.60$		2.0		2.0		
		0.90			$.35 \times V_{CC}$.35 x V_{CC}	
		$1.10 \leq V_{CC} \leq 1.30$			$.35 \times V_{CC}$.35 x V_{CC}	
	LOW Level Input	$1.40 \leq V_{CC} \leq 1.60$			$.35 \times V_{CC}$		$.35 \times V_{CC}$	- V
	Voltage	$1.65 \leq V_{CC} \leq 1.95$			$.35 \times V_{CC}$.35 x V_{CC}	
		$2.30 \leq V_{CC} \leq 2.70$			0.7		0.7	
		$2.70 \leq V_{CC} \leq 3.60$			0.8		0.8	
		0.90		V _{CC} -0.1		V _{CC} -0.1		
		$1.10 \leq V_{CC} \leq 1.30$		V _{CC} -0.1		V _{CC} -0.1		
		$1.40 \leq V_{CC} \leq 1.60$	L	V _{CC} -0.2		V _{CC} -0.2		
		$1.65 \leq V_{CC} \leq 1.95$	I _{ОН} =-100µА	V _{CC} -0.2		V _{CC} -0.2		
		$2.30 \leq V_{CC} \leq 2.70$		V _{CC} -0.2		V _{CC} -0.2		
		$2.70 \leq V_{CC} \leq 3.60$		V _{CC} -0.2		V _{CC} -0.2		
		$1.10 \leq V_{CC} \leq 1.30$	I _{OH} =-2mA	.75 x V _{CC}		$.75 \times V_{CC}$		
V _{OH}	HIGH Level Output Voltage	$1.40 \leq V_{CC} \leq 1.60$	I _{OH} =-4mA	.75 x V _{CC}		$.75 \times V_{CC}$		V
	· enage	$1.65 \leq V_{CC} \leq 1.95$	I _{OH} =-6mA	1.25		1.25		
		$2.30 \leq V_{CC} \leq 2.70$		2.0		2.0		
		$2.30 \leq V_{CC} \leq 2.70$	I – 12m∧	1.8		1.8		
		$2.70{\leq}~V_{CC}{\leq}~3.60$	I _{OH} =-12mA	2.2		2.2		
		$2.30 \leq V_{CC} \leq 2.70$	19m A	1.7		1.7		
		$2.70 \leq V_{CC} \leq 3.60$	I _{ОН} =-18mA	2.4		2.4		
		$2.70 \leq V_{CC} \leq 3.60$	I _{OH} =-24mA	2.2	7	2.2		

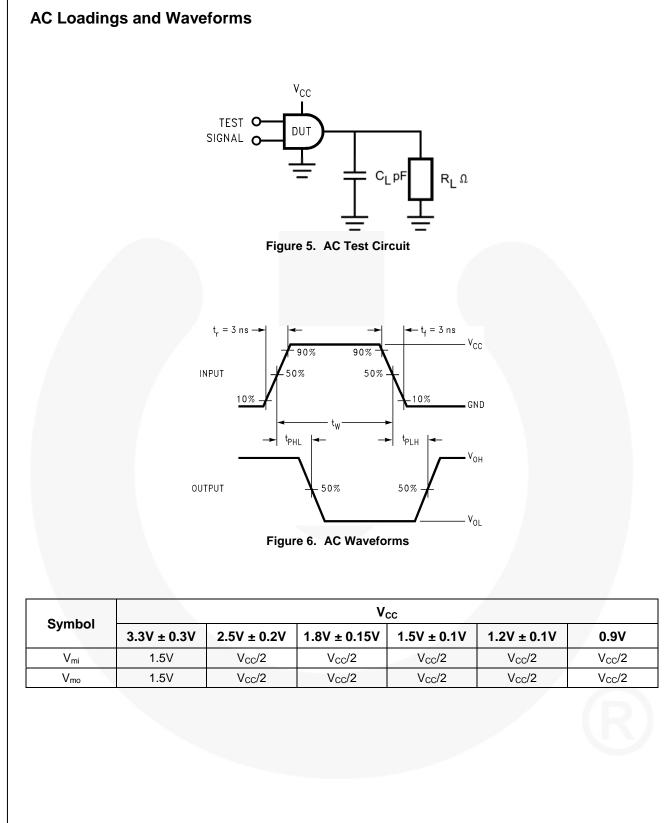
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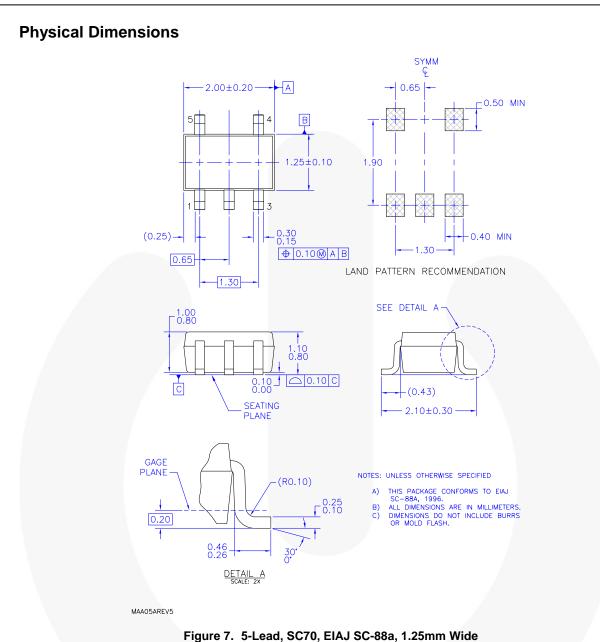
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•				T _A =	25°C	T _A =-40 to 85°C		
Symbol Parameter	V _{cc}	Conditions	Min.	Max.	Min.	Max.	Units	
		0.90			0.1		0.1	
		$1.10 \leq V_{CC} \leq 1.30$			0.1		0.1]
		$1.40 \leq V_{CC} \leq 1.60$	1004		0.2		0.2	-
		$1.65 \leq V_{CC} \leq 1.95$	- I _{OL} =100μΑ		0.2		0.2	
		$2.30 \leq V_{CC} \leq 2.70$			0.2		0.2	
1		$2.70 \leq V_{CC} \leq 3.60$			0.2		0.2	
	LOW Level	$1.10 \leq V_{CC} \leq 1.30$	I _{OL} =2mA		0.25 x V_{CC}		0.25 x V_{CC}	v
	Output Voltage	$1.40 \leq V_{CC} \leq 1.60$	I _{OL} =4mA		$0.25 \times V_{CC}$		$0.25 \times V_{CC}$	
		$1.65 \leq V_{CC} \leq 1.95$	I _{OL} =6mA		0.3		0.3	
		$2.30 \leq V_{CC} \leq 2.70$	I _{OL} =12mA		0.4		0.4	
		$2.70 \leq V_{CC} \leq 3.60$			0.4		0.4	
		$2.30 {\leq} V_{CC} {\leq} 2.70$	loi=18mA		0.6		0.6	
		$2.70 \leq V_{CC} \leq 3.60$			0.4		0.4	
		$2.70 \leq V_{CC} \leq 3.60$	I _{OL} =24mA		0.55		0.55	
I _{IN}	Input Leakage Current	0.90 to 3.60	$0 \leq V_{IN} \leq 3.60$		±0.1		±0.5	μA
I _{OFF}	Power Off Leakage Current	0	$\begin{array}{l} 0 \leq (V_{IN,}v_O) \\ \leq 3.60 \end{array}$		0.5		0.5	μA
	Quiescent	0.00 to 0.00	$V_{IN}=V_{CC}$, or GND		0.9		0.9	
	Supply Current	0.90 to 3.60	$V_{CC} \le V_{IN} \le 3.6V$				±0.9	μA

AC Electrical Characteristics

Symbol	Parameter	N _e e	Conditions	T _A =25°C		T _A =-40 to 85°C		Units	Figure		
Symbol Parameter		Vcc	Conditions	Min.	Тур.	Max.	Min.	Max.	Units	Figure	
		0.90	$C_L=15pF, R_L=1M\Omega$		12						
		$1.10 \leq V_{CC} \leq 1.30$		2.0	6.0	9.0	1.0	13.9			
t _{PHL} , t _{PLH} Propagation Delay	$1.40 \leq V_{CC} \leq 1.60$	$C_L=15pF,R_L=2k\Omega$	1.0	3.2	5.1	0.9	6.0	ns	Figure 5 Figure 6		
	$1.65 \leq V_{CC} \leq 1.95$		1.0	2.0	4.2	0.7	5.2				
		$2.30 \leq V_{CC} \leq 2.70$	C _L =30pF, R₁=500Ω	$C_L=30pF,$ $R_I=500\Omega$	0.8	1.8	2.7	0.6	3.4		
		$2.70 \leq V_{CC} \leq 3.60$		0.7	1.5	2.3	0.5	2.8			
C _{IN}	Input Capacitance	0			2				pF	5	
C _{PD}	Power Dissipation Capacitance	0.90 to 3.60	V _I =0V or V _{CC} , f=10MHz		10				pF	Z	





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Tape and Reel Specification

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications: <u>http://www.fairchildsemi.com/products/analog/pdf/sc70-5_tr.pdf</u>.

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	

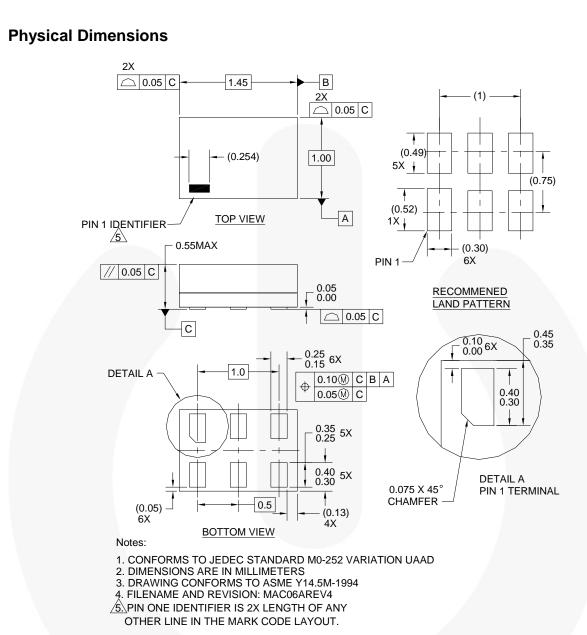


Figure 8. 6-Lead, MicroPak™, 1.0mm Wide

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Tape and Reel Specification

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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

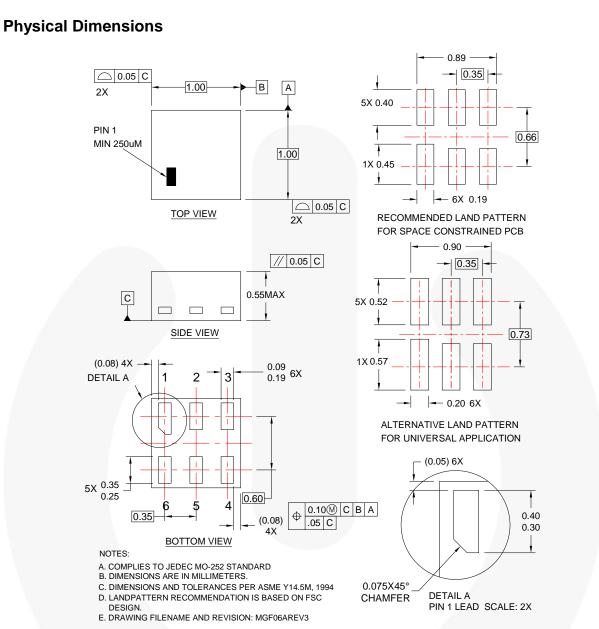


Figure 9. 6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch

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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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Auto-SPM™	FRFET®
Build it Now™	Global Power Resou
CorePLUS™	Green FPS™
CorePOWER™	Green FPS™e-Serie
CROSSVOLT™	G <i>m</i> ax™
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EcoSPARK [®]	MICROCOUPLER [™]
EfficientMax™	MicroFET™
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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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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