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September 2011

NC7SV05 TinyLogic[®] ULP-A Inverter (Open-Drain Output)

Features

- 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
 - 1.0ns: Typical for 2.7V to 3.6V V_{CC}
 - 1.2ns: 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}
 - 13.0ns: Typical for 0.9V V_{CC}
- Power-Off High-Impedance Inputs and Outputs
- High Static Drive (I_{OH}/I_{OL})
 - ± 24 mA at 3.00V V_{CC}
 - \pm 18mA at 2.30V V_{CC}
 - \pm 6mA at 1.65V V_{CC}
 - $\pm 4mA$ at 1.4V V_{CC}
 - ± 2 mA at 1.1V V_{CC}
 - ± 0.1 mA at 0.9V V_{CC}
- Uses Proprietary Quiet Series[™] Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Ultra-Low Dynamic Power

Description

The NC7SV05 is a single inverter with open-drain output 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 $V_{\rm CC}$) and applications that require more drive and speed than the TinyLogic® ULP series, but still offer best-in-class, low-power operation.

The NC7SV05 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.

Ordering Information

Part Number	Top Mark	Package	Packing Method
NC7SV05P5X	V05	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SV05L6X	F9	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SV05FHX	F9	6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

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Battery Life

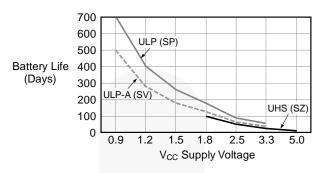


Figure 1. Battery Life vs. V_{CC} Supply Voltage

Notes:

- 1. TinyLogic[®] ULP and ULP-A with up to 50% less power consumption can extend battery life significantly. Battery Life = (V_{battery}•l_{battery}•9)/(P_{device})/24hrs/day
 where P_{very} = (log•V_{oo}) + (Crop+C_i)•V_{oo}• f
- where, $P_{device} = (I_{CC} \bullet V_{CC}) + (C_{PD} + C_L) \bullet V_{CC2} \bullet f$.

 2. Assumes ideal 3.6V Lithium Ion battery with current rating of 900mAH and derated 90% and device frequency at 10MHz, with C_L =15pF load.

Connection Diagram

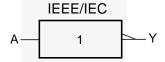


Figure 2. Logic Symbol

Pin Configurations

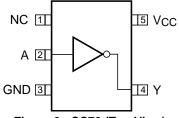


Figure 3. SC70 (Top View)

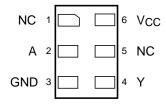


Figure 4. MicroPak (Top Through View)

Pin Definitions

Pin # SC70	Pin # MicroPak	Name	Description
1	1, 5	NC	No Connect
2	2	A	Input
3	3	GND	Ground
4	4	Υ	Output
5	6	V _{cc}	Supply Voltage

Function Table

Inputs	Output
A	Y
L	*H
Н	L

H=HIGH Logic Level

L=LOW Logic Level

*H=HIGH Impedance Output Status (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	4.6	V
V _{IN}	DC Input Voltage		-0.5	4.6	V
V_{OUT}	DC Output Voltage		-0.5	4.6	V
I _{IK}	DC Input Diode Current	V _{IN} < 0V		-50	mA
I _{OK}	DC Output Diode Current	V _{OUT} < 0V		-50	mA
I _{OL}	DC Output Sink Current			+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 E	Bias		+150	°C
TL	Junction Lead Temperature, S	oldering 10 Seconds		+260	°C
		SC70-5		150	
P_D	Power Dissipation at +85°C	MicroPak-6		130	mW
		MicroPak2-6		120	
ESD	Human Body Model, JEDEC:J	ESD22-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		0.9	3.6	V	
V_{IN}	Input Voltage		0	3.6	V	
V_{OUT}	Output Voltage		0	3.6	V	
		V _{CC} =3.0V to 3.6V		+24.0		
		V _{CC} =2.3V to 3.6V		+18.0		
	Output Current in I	V _{CC} =1.65V to 1.95V		+6.0	mA	
I _{OL}	Output Current in I _{OL}	V _{CC} =1.4V to 1.6V		+4.0		
		V _{CC} =1.1V to 1.3V		+2.0		
		V _{CC} =0.9V		+0.1	$\supset 1$	
T_A	Operating Temperature, Free Air		-40	+85	°C	
Δt/ΔV	Minimum Input Edge Rate	V_{IN} =0.8V to 2.0, V_{CC} =3.0V		10	ns/V	
		SC70-5		425	°C/W	
$\theta_{\sf JA}$	Thermal Resistance	MicroPak-6		500		
		MicroPak2-6		560	1	

Note:

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

DC Electrical Characteristics

0	D	.,	0	T _A =2	25°C	T _A =-40	to 85°C	
Symbol	Parameter	V _{cc}	Conditions	Min.	Max.	Min.	Max.	Units
		0.90		.65 x V _{CC}		.65 x V _{CC}		
		1.10 ≤ V _{CC} ≤ 1.30		.65 x V _{CC}		.65 x V _{CC}		
.,	HIGH Level Input	$1.40 \le V_{CC} \le 1.60$.65 x V _{CC}		.65 x V _{CC}		l
V_{IH}	Voltage	$1.65 \leq V_{CC} \leq 1.95$.65 x V _{CC}		.65 x 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 x V _{CC}		.35 x V _{CC}	
		$1.10 \le V_{CC} \le 1.30$.35 x V _{CC}		.35 x V _{CC}	
	LOW Level Input	$1.40 \leq V_{CC} \leq 1.60$.35 x V _{CC}		.35 x V _{CC}	.,
V_{IL}	Voltage	$1.65 \leq V_{CC} \leq 1.95$.35 x V _{CC}		.35 x V _{CC}	V
		$2.30 \leq V_{CC} \leq 2.70$			0.7		0.7	
		$2.70 \leq V_{CC} \leq 3.60$			0.8		0.8	
		0.90			0.1		0.1	
		$1.10 \le V_{CC} \le 1.30$	- I _{OL} =100μA		0.1		0.1	V
	/	$1.40 \le V_{CC} \le 1.60$			0.2		0.2	
		$1.65 \le V_{CC} \le 1.95$			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 Output	$1.10 \le V_{CC} \le 1.30$	I _{OL} =2mA		0.25 x V _{CC}		0.25 x V _{CC}	
V_{OL}	Voltage	$1.40 \le V_{CC} \le 1.60$	I _{OL} =4mA		0.25 x V _{CC}		0.25 x V _{CC}	
		$1.65 \le V_{CC} \le 1.95$	I _{OL} =6mA		0.3		0.3	
		$2.30 \leq V_{CC} \leq 2.70$			0.4		0.4	
		$2.70 \leq V_{CC} \leq 3.60$	I _{OL} =12mA		0.4		0.4	
		2.30≤ V _{CC} ≤ 2.70	101		0.6		0.6	
		$2.70 \leq V_{CC} \leq 3.60$	I _{OL} =18mA		0.4		0.4	
		$2.70 \leq V_{CC} \leq 3.60$	I _{OL} =24mA		0.55	A	0.55	
I _{IN}	Input Leakage Current	0.90 to 3.60	$0 \leq V_{IN} \leq 3.60$		±0.1		±0.5	μΑ
I _{OFF}	Power Off Leakage Current	0	$\begin{array}{l} 0 \leq \left(V_{\text{IN},} V_{\text{O}}\right) \\ \leq 3.60 \end{array}$		0.5		0.5	μΑ
	Quiescent Supply	0.00 to 2.60	V _{IN} =V _{CC} , or GND		0.9		0.9	^
I _{CC}	Current	0.90 to 3.60	$V_{CC} \le V_{IN} \le 3.6V$				±0.9	μA

AC Electrical Characteristics

Symbol	Parameter	V	V _{cc} Conditions		T _A =25°(2	T _A =-40	to 85°C	Units	Figure
Symbol	Parameter	V _{cc}	Conditions	Min.	Тур.	Max.	Min.	Max.	Units	Figure
		0.90	$C_L=15pF$, $R_U=R_D=1k\Omega$		13					
		$1.10 \le V_{CC} \le 1.30$	C _L =30pF,	3.0	6.0	15.0	1.0	18.6		
t _{PZL} , t _{PLZ}	Propagation Delay	$1.40 \le V_{CC} \le 1.60$	$R_U=R_D=1k\Omega$ $C_L=30pF$, $R_U=R_D=1k\Omega$	1.0	3.2	8.7	1.0	9.7	ns	Figure 5 Figure 6
	Delay	$1.65 \leq V_{CC} \leq 1.95$		1.0	2.0	6.0	1.0	6.8		
		$2.30 \leq V_{CC} \leq 2.70$		$C_L=30pF$, $R_U=R_D=1k\Omega$	0.8	1.2	3.6	0.7	4.7	
		$2.70 \leq V_{CC} \leq 3.60$	110 115 1111	0.7	1.0	3.3	0.6	4.0		
C _{IN}	Input Capacitance	0			2				pF	
C _{PD}	Power Dissipation Capacitance	0.90 to 3.60	V _{IN} =0V or V _{CC} , f=10MHz		10				pF	

AC Loadings and Waveforms

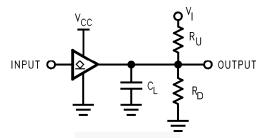


Figure 5. AC Test Circuit

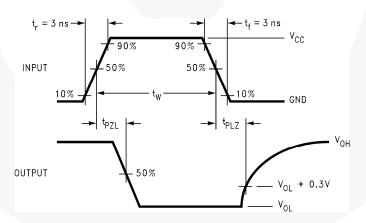


Figure 6. AC Waveforms for Inverting and Non-Inverting Functions

		V _{cc}					
Symbol	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}	V _{OL} + 0.30V	V _{OL} + 0.15V	V _{OL} + 0.15V	V _{OL} + 0.10V	V _{OL} + 0.10V	V _{OL} + 0.10V	

Physical Dimensions

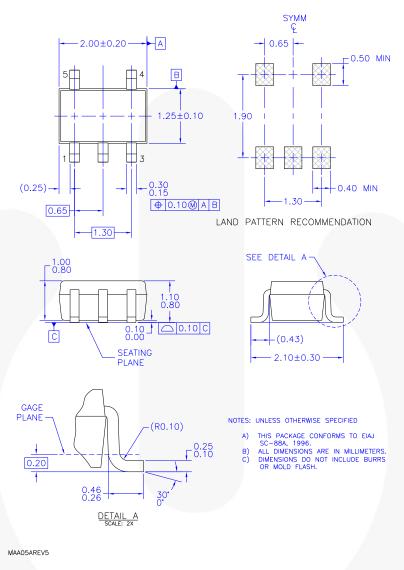


Figure 7. 5-Lead, SC70, EIAJ SC-88a, 1.25mm Wide

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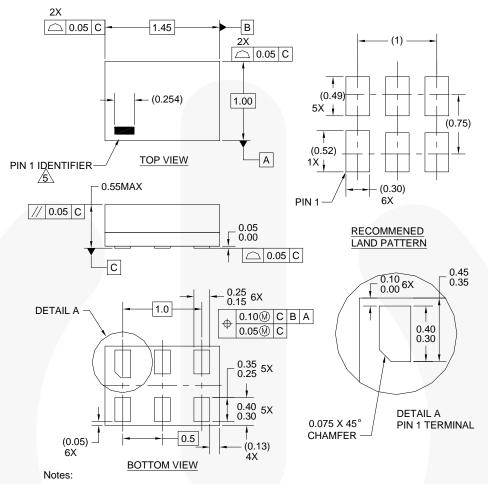
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Tape and Reel Specification

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

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

Physical Dimensions



- 1. CONFORMS TO JEDEC STANDARD M0-252 VARIATION UAAD
- 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-1994 4. FILENAME AND REVISION: MAC06AREV4
- 5. PIN ONE IDENTIFIER IS 2X LENGTH OF ANY OTHER LINE IN THE MARK CODE LAYOUT.

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

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Tape and Reel Specification

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
	Leader (Start End)	125 (Typical)	Empty	Sealed
L6X	Carrier	5000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed

Physical Dimensions 0.89 ○ 0.05 C 0.35 В 1.00 5X 0.40 PIN 1 0.66 MIN 250uM 1.00 1X 0.45 6X 0 19 ○ 0.05 C TOP VIEW RECOMMENDED LAND PATTERN 2X FOR SPACE CONSTRAINED PCB // 0.05 C 0.55MAX С 5X 0 52 SIDE VIEW 0.73 (0.08) 4X 1X 0.57 0.09 0.19 6X DETAIL A 2 - 0.20 6X ALTERNATIVE LAND PATTERN FOR UNIVERSAL APPLICATION

NOTES:

5X 0.35 0.25

A. COMPLIES TO JEDEC MO-252 STANDARD

BOTTOM VIEW

- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994 D. LANDPATTERN RECOMMENDATION IS BASED ON FSC

0.60

(0.08)

4X

- D. LANDPATTERN RECOMMENDATION IS BASED ON FSC DESIGN.
- E. DRAWING FILENAME AND REVISION: MGF06AREV3

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

Ф

0.10M C B A

0.075X45°

CHAMFER

.05 C

(0.05) 6X

DETAIL A

PIN 1 LEAD SCALE: 2X

0.40

0.30

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Tape and Reel Specification

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications: http://www.fairchildsemi.com/packaging/MicroPAK2 6L tr.pdf.

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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No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.		
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.		

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