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December 2010

NC7SVL32 TinyLogic[®] Low-I_{CCT} Two-Input OR Gate

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
- Power-Off High-Impedance Inputs and Outputs
- Proprietary Quiet SeriesTM Noise / EMI Reduction Circuitry
- Ultra-Small MicroPak[™] Packages
- Ultra-Low Dynamic Power

Description

The NC7SVL32 is a single two-input OR gate with a Low-l_{CCT} input design from Fairchild's Ultra-Low Power (ULP-A) series of TinyLogic®. The NC7SVL32 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 NC7SVL32 facilitates lower power consumption in mixed-voltage rail environments.

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

Ordering Information

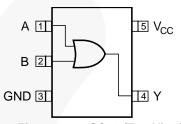
Part Number	Top Mark	Package	Packing Method
NC7SVL32P5X	L32	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SVL32L6X	CF	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SVL32FHX	CF	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

Connection Diagram



Figure 1. Logic Symbol

Pin Configurations



A 1 6 V_{CC}
B 2 5 NC
GND 3 4 Y

Figure 2. SC70 (Top View)

Figure 3. MicroPak™ (Top Through View)

Pin Definitions

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 = A+B

Inp	outs	Output
Α	В	Y
L	L	L
L	Н	Н
Н	L	Н
Н	Н	Н

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	DC Output Valtage	HIGH or LOW State ⁽¹⁾	-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
	DO Custout Diede Comment	V _{OUT} < 0V		-50	A
l _{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 S	Supply Pin		±50	mA
T _{STG}	Storage Temperature Range		-65	+150	°C
TJ	Junction Temperature Under Bi	as		+150	°C
TL	Junction Lead Temperature, So	oldering 10 Seconds		+260	°C
		SC70-5		150	
P_D	Power Dissipation at +85°C	MicroPak™-6		130	mW
		MicroPak2™-6		120	
FCD	Human Body Model, JEDEC:JE		4000	V	
ESD	Charge Device Model, JEDEC:	JESD22-C101		2000	V

Note:

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	Output Voltage	V _{CC} =0V	0	3.6	V
V _{OUT}	Output Voltage	HIGH or LOW State	0	V _{CC}	7 v
		V _{CC} =3.0V to 3.6V		±24.0	
	Output Current in L. //	V _{CC} =2.3V to 2.7V		±18.0	
1 /1		V _{CC} =1.65V to 1.95V		±6.0	
I _{OH} /I _{OL}	Output Current in I _{OH} /I _{OL}	V _{CC} =1.4V to 1.6V		±4.0	mA
		V _{CC} =1.1V to 1.3V		±2.0	
		V _{CC} =0.9V		±0.1	
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	
θ_{JA}	Thermal Resistance	MicroPak™-6		500	°C/W
		MicroPak2™-6		560	1

Note:

^{1.} Io absolute maximum ratings must be observed.

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

DC Electrical Characteristics

0		.,	0 1111	T _A =2	5°C	T _A =-40	to +85°C	11.26
Symbol	Parameter	V _{cc}	Conditions	Min.	Max.	Min.	Max.	Units
		0.90		.65 x V _{CC}		.65 x V _{CC}		
		$1.10 \le V_{CC} \le 1.30$.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}		.,
V _{IH}	Voltage	$1.65 \le V_{CC} \le 1.95$		0.90		0.90		V
		$2.30 \leq V_{CC} \leq 2.70$		1.50		1.50		
		$2.70 \leq V_{CC} \leq 3.60$		1.50		1.50		
		0.90			.25 x V _{CC}		.25 x V _{CC}	
		$1.10 \le V_{CC} \le 1.30$.25 x V _{CC}		.25 x V _{CC}	
.,	LOW Level Input	$1.40 \le V_{CC} \le 1.60$.25 x V _{CC}		.25 x V _{CC}	V
V _{IL}	Voltage	$1.65 \le V_{CC} \le 1.95$.25 x V _{CC}		.25 x V _{CC}	\ \
		$2.30 \leq V_{CC} \leq 2.70$			0.70		0.70	
		$2.70 \leq V_{CC} \leq 3.60$			0.80		0.80	
- /		0.90		V _{CC} -0.10		V _{CC} -0.10		
		$1.10 \le V_{CC} \le 1.30$		V _{CC} -0.10		V _{CC} -0.10		
		$1.40 \leq V_{CC} \leq 1.60$	I _{OH} =-100μA	V _{CC} -0.20		V _{CC} -0.20		
A		$1.65 \leq V_{CC} \leq 1.95$	10H=-100μΑ	V _{CC} -0.20		V _{CC} -0.20		
		$2.30 \leq V_{CC} \leq 2.70$		V _{CC} -0.20		V _{CC} -0.20		
		$2.70 \leq V_{CC} \leq 3.60$		V _{CC} -0.20		V _{CC} -0.20		
		$1.10 \leq V_{CC} \leq 1.30$	I _{OH} =-2mA	.75 x V _{CC}		.75 x V _{CC}		
V_{OH}	HIGH Level Output Voltage	$1.40 \leq V_{CC} \leq 1.60$	I _{OH} =-4mA	.75 x V _{CC}		.75 x V _{CC}		V
	remage	$1.65 \leq V_{CC} \leq 1.95$	I _{OH} =-6mA	1.25		1.25		
		$2.30 \leq V_{CC} \leq 2.70$	IOH=-OITIA	2.00		2.00		
		$2.30 \leq V_{CC} \leq 2.70$	I _{OH} =-12mA	1.80		1.80		
		$2.70 \leq V_{CC} \leq 3.60$	IOH=-1ZIIIA	2.20		2.20		
		$2.30 \leq V_{CC} \leq 2.70$	I _{OH} =-18mA	1.70		1.70		
		$2.70 \leq V_{CC} \leq 3.60$	IOH=- I OITIA	2.40		2.40		
		$2.70 \leq V_{CC} \leq 3.60$	I _{OH} =-24mA	2.20		2.20		

Continued on the following page...

DC Electrical Characteristics (Continued)

Comple al	Davamatar	V	Conditions	T _A =	25°C	T _A =-40	to +85°C	l luita	
Symbol	Parameter	Parameter V _{cc}		Conditions Min.		Min.	Max.	Units	
		0.90			0.1		0.1		
		$1.10 \leq V_{CC} \leq 1.30$			0.1		0.1		
		$1.40 \leq V_{CC} \leq 1.60$	Ι _{ΟL} =100μΑ		0.2		0.2		
		$1.65 \leq V_{CC} \leq 1.95$	I _{OL} =100µA		0.2		0.2		
		$2.30 \leq V_{CC} \leq 2.70$			0.2		0.2		
		$2.70 \leq V_{CC} \leq 3.60$			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	
V _{OL}	Output Voltage	$1.40 \le V_{CC} \le 1.60$	I _{OL} =4mA		0.25 x V _{CC}		0.25 x V _{CC}	V	
		$1.65 \leq V_{CC} \leq 1.95$	I _{OL} =6mA		0.30		0.3		
		$2.30 \leq V_{CC} \leq 2.70$	I _{OL} =12mA		0.40		0.40		
		$2.70 \leq V_{CC} \leq 3.60$	I _{OL} =12IIIA		0.40		0.40		
		$2.30 \leq V_{CC} \leq 2.70$	I _{OL} =18mA		0.60		0.60		
		$2.70 \leq V_{CC} \leq 3.60$	IOL=TOTTIA		0.40		0.40		
		$2.70 \leq V_{CC} \leq 3.60$	I _{OL} =24mA		0.55		0.55		
I _{IN}	Input Leakage Current	0.90 to 3.60	$0 \leq V_{IN} \leq 3.60V$		±0.1		±0.5	μA	
l _{OFF}	Power Off Leakage Current	0	$0 \le (V_{IN}, V_O) \le 3.60V$		0.5		0.5	μΑ	
	, Quiescent	0.00 to 2.60	V _{IN} =V _{CC} , or GND		0.9		0.9		
Icc	Supply Current	0.90 to 3.60	$V_{CC} \leq V_{IN} \leq 3.60 V$				±0.9	μA	
Ісст	Increase in I _{CC}	1.95	V _{IN} =0.9V		6		8	μA	
ICCI	per Input	3.60	V _{IN} =1.5V		6		8	μΛ	

AC Electrical Characteristics

Cumbal	Doromotor	V	Conditions	T _A =25°C		T _A =-40 to 85°C		Linita	Figure	
Symbol	Parameter	V _{CC}	Conditions	Min.	Тур.	Max.	Min.	Max.	Units	rigure
		0.90	$C_L=15pF, R_L=1M\Omega$		42.0	- 2			7	
		$1.10 \le V_{CC} \le 1.30$	C 45=5 D 01:0	3.5	8.2	17.0	3.0	30.5		
	Propagation	$1.40 \le V_{CC} \le 1.60$	$C_L=15pF, R_L=2k\Omega$	1.5	4.0	7.0	1.5	7.5	ns	Figure 4
t _{PHL} , t _{PLH}	Delay	$1.65 \le V_{CC} \le 1.95$		1.1	3.2	5.5	1.0	6.0		Figure 5
		$2.30 \leq V_{CC} \leq 2.70$	$C_L=30pF, R_L=500\Omega$	0.6	2.3	4.0	0.6	4.5		
		$2.70 \leq V_{CC} \leq 3.60$		0.5	1.9	3.5	0.5	4.0		21
C _{IN}	Input Capacitance	0			3				pF	3/
C _{PD}	Power Dissipation Capacitance	0.90 to 3.60	V _{IN} =0V or V _{CC} , f=10MHz		5				pF	

AC Loadings and Waveforms

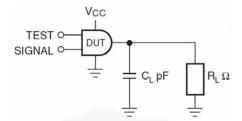
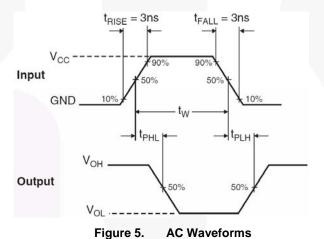


Figure 4. AC Test Circuit



Symbol		V _{CC}								
Syllibol	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								

Physical Dimensions

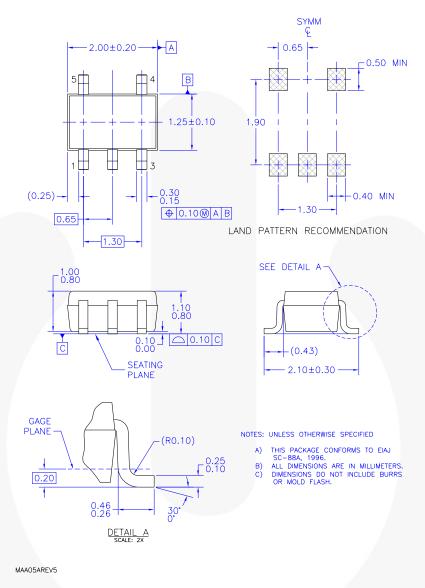


Figure 6. 5-Lead, SC70, EIAJ SC-88a, 1.25mm Wide

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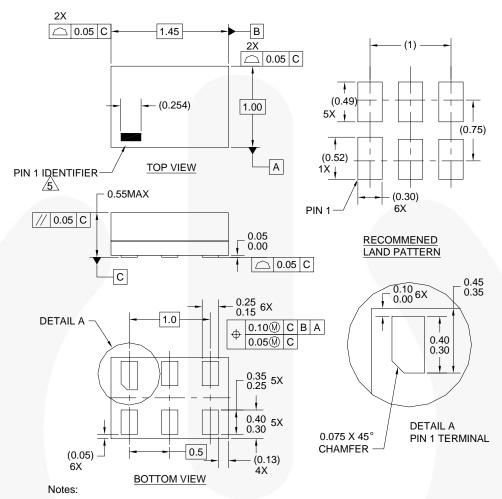
Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings: http://www.fairchildsemi.com/packaging/.

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/analog/pdf/sc70-5 tr.pdf.

Package Designator	Package Designator Tape Section		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 7. 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
	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 1.00 В 2X 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 3 - 0.20 6X ALTERNATIVE LAND PATTERN

- A. COMPLIES TO JEDEC MO-252 STANDARD
- B. DIMENSIONS ARE IN MILLIMETERS.

0.35

C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994

0.60

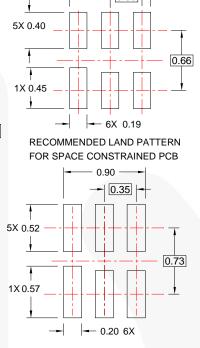
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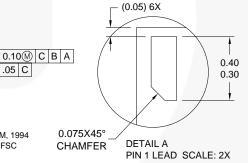
4X

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

BOTTOM VIEW





FOR UNIVERSAL APPLICATION

Figure 8. 6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch

.05 C

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Tape and Reel Specifications

5X 0.35 0.25

NOTES:

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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FREET

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Green FPS™ e-Series™

PowerTrench⁶ PowerXS™

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PDP SPM™

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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.
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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