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June 2002 Revised March 2004

NC7SP32

TinyLogic® ULP 2-Input OR Gate

General Description

The NC7SP32 is a single 2-Input OR Gate from Fairchild's Ultra Low Power (ULP) Series of TinyLogic®. Ideal for applications where battery life is critical, this product is designed for ultra low power consumption within the $\rm V_{CC}$ operating range of 0.9V to 3.6V $\rm V_{CC}$.

The internal circuit is composed of a minimum of inverter stages, including the output buffer, to enable ultra low static and dynamic power.

The NC7SP32, for lower drive requirements, is uniquely designed for optimized power and speed, and is fabricated with an advanced CMOS technology to achieve best in class speed operation while maintaining extremely low CMOS power dissipation.

Features

- 0.9V to 3.6V V_{CC} supply operation
- 3.6V overvoltage tolerant I/O's at V_{CC} from 0.9V to 3.6V
- t_{PC}

3.0 ns typ for 3.0V to 3.6V V_{CC}

4.0 ns typ for 2.3V to 2.7V V_{CC}

5.0 ns typ for 1.65V to 1.95V V_{CC}

6.0 ns typ for 1.40V to 1.60V V_{CC}

9.0 ns typ for 1.10V to 1.30V V_{CC}

24.0 ns typ for 0.90V V_{CC}

- Power-Off high impedance inputs and outputs
- Static Drive (I_{OH}/I_{OL})

±2.6 mA @ 3.00V V_{CC}

±2.1 mA @ 2.30V V_{CC}

±1.5 mA @ 1.65V V_{CC}

 ± 1.0 mA @ 1.40V V_{CC}

 ± 0.5 mA @ 1.10V V_{CC}

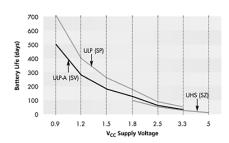
 $\pm 20~\mu A$ @ 0.9V V_{CC}

- Uses patented Quiet Series[™] noise/EMI reduction circuitry
- Ultra small MicroPak™ leadfree package
- Ultra Low dynamic power

Ordering Code:

Order Number	Package Number	Product Code Top Mark	Package Description	Supplied As
NC7SP32P5X	MAA05A	P32	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3k Units on Tape and Reel
NC7SP32L6X	MAC06A	K5	6-Lead MicroPak, 1.0mm Wide	5k Units on Tape and Reel

Battery Life vs. V_{CC} Supply Voltage



TinyLogic ULP and ULP-A with up to 50% less power consumption can extend your battery life significantly. Battery Life = $(V_{battery}^{*}, 9)/(P_{device})/24hrs/day$

Where, $P_{device} = (I_{CC} * V_{CC}) + (C_{PD} + C_L) * V_{CC}^2 * f$

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

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

Logic Symbol



Pin Descriptions

Pin Names	Description
A, B	Input
Y	Output
NC	No Connect

Function Table

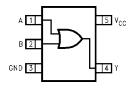
$$Y = A + B$$

Inj	out	Output
Α	В	Y
L	L	L
L	Н	Н
Н	L	Н
Н	Н	Н

H = HIGH Logic Level L = LOW Logic Level

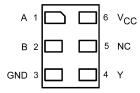
Connection Diagrams

Pin Assignments for SC70



(Top View)

Pad Assignments for MicroPak



(Top Thru View)

Absolute Maximum Ratings(Note 1)

-0.5V to +4.6V

DC Input Voltage (V $_{\rm IN}$) $-0.5{\rm V}$ to +4.6V DC Output Voltage (V $_{\rm OUT}$)

 $\label{eq:continuous} \begin{array}{lll} \mbox{HIGH or LOW State (Note 2)} & -0.5\mbox{V to V}_{CC} + 0.5\mbox{V} \\ \mbox{V}_{CC} = 0\mbox{V} & -0.5\mbox{V to 4.6V} \\ \mbox{DC Input Diode Current (I}_{IK}) \mbox{V}_{IN} < 0\mbox{V} & \pm 50 \mbox{ mA} \\ \end{array}$

DC Output Diode Current (I_{OK})

Supply Voltage (V_{CC})

 $\begin{array}{lll} V_{OUT} > 0V & -50 \text{ mA} \\ V_{OUT} < V_{CC} & +50 \text{ mA} \\ \text{DC Output Source/Sink Current (I}_{OH}/I_{OL}) & \pm 50 \text{ mA} \\ \end{array}$

 $\operatorname{DC}\operatorname{V}_{\operatorname{CC}}$ or Ground Current per

Supply Pin (I_{CC} or Ground) ± 50 mA Storage Temperature Range (T_{STG}) -65° C to $+150^{\circ}$ C

Recommended Operating Conditions (Note 3)

Supply Voltage 0.9V to 3.6V Input Voltage (V_{IN}) 0V to 3.6V

Output Voltage (V_{OUT})

HIGH or LOW State $$\rm OV\ to\ V_{CC}$$ $\rm V_{CC}=\rm OV$ $\rm OV\ to\ 3.6V$

Output Current in I_{OH}/I_{OL}

 $V_{CC} = 3.0V \text{ to } 3.6V$ ±2.6 mA $V_{CC} = 2.3V \text{ to } 2.7V$ ±2.1 mA $V_{CC} = 1.65V \text{ to } 1.95V$ ±1.5 mA

 $\begin{array}{lll} V_{CC} = 1.40 V \ to \ 1.60 V & \pm 1 \ mA \\ \\ V_{CC} = 1.10 V \ to \ 1.30 V & \pm 0.5 \ mA \\ \\ V_{CC} = 0.9 V & \pm 20 \ \mu A \end{array}$

Free Air Operating Temperature (T_A) -40°C to +85°C

Minimum Input Edge Rate (Δt/ΔV)

 $V_{IN} = 0.8V$ to 2.0V, $V_{CC} = 3.0V$ 10 ns/V

Note 1: Absolute Maximum Ratings: are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

Note 2: IO Absolute Maximum Rating must be observed.

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

DC Electrical Characteristics

Symbol	Parameter	V _{CC}	T _A = -	$T_A = +25^{\circ}C$		$T_A = -40^{\circ}C$ to $+85^{\circ}C$		Conditions
Symbol	Parameter	(V)	Min	Max	Min	Max	Units	Conditions
V _{IH}	HIGH Level	0.90	0.65 x V _{CC}		0.65 x V _{CC}			
	Input Voltage	$1.10 \leq V_{CC} \leq 1.30$	0.65 x V _{CC}		0.65 x V _{CC}			
		$1.40 \leq V_{CC} \leq 1.60$	0.65 x V _{CC}		0.65 x V _{CC}		V	
		$1.65 \leq V_{CC} \leq 1.95$	0.65 x V _{CC}		0.65 x V _{CC}		v	
		$2.30 \leq V_{CC} \leq 2.70$	1.6		1.6			
		$3.00 \leq V_{CC} \leq 3.60$	2.1		2.1			
V _{IL}	LOW Level	0.90		0.35 x V _{CC}		0.35 x V _{CC}		
	Input Voltage	$1.10 \leq V_{CC} \leq 1.30$		$0.35 \times V_{\rm CC}$		$0.35 \times V_{\rm CC}$		
		$1.40 \le V_{CC} \le 1.60$		$0.35 \times V_{\rm CC}$		$0.35 \times V_{\rm CC}$	V	
		$1.65 \leq V_{CC} \leq 1.95$		$0.35 \times V_{\rm CC}$		$0.35 \times V_{\rm CC}$	v	
		$2.30 \leq V_{CC} \leq 2.70$		0.7		0.7		
		$3.00 \leq V_{CC} \leq 3.60$		0.9		0.9		
V _{OH}	HIGH Level	0.90	V _{CC} - 0.1		V _{CC} - 0.1			
	Output Voltage	$1.10 \leq V_{CC} \leq 1.30$	V _{CC} - 0.1		$V_{CC} - 0.1$			
		$1.40 \leq V_{CC} \leq 1.60$	V _{CC} - 0.1		$V_{CC} - 0.1$			I _{OH} = -20 μA
		$1.65 \le V_{CC} \le 1.95$	V _{CC} - 0.1		$V_{CC} - 0.1$			10H = -20 μΑ
		$2.30 \leq V_{CC} \leq 2.70$	V _{CC} - 0.1		$V_{CC} - 0.1$			
		$3.00 \leq V_{CC} \leq 3.60$	V _{CC} - 0.1		$V_{CC} - 0.1$		V	
		$1.10 \le V_{CC} \le 1.30$	0.75 x V _{CC}		0.70 x V _{CC}			$I_{OH} = -0.5 \text{ mA}$
		$1.40 \le V_{CC} \le 1.60$	1.07		0.99			$I_{OH} = -1 \text{ mA}$
		$1.65 \le V_{CC} \le 1.95$	1.24		1.22			$I_{OH} = -1.5 \text{ mA}$
		$2.30 \leq V_{CC} \leq 2.70$			1.87			$I_{OH} = -2.1 \text{ mA}$
		$3.00 \le V_{CC} \le 3.60$	2.61		2.55			I _{OH} = -2.6 mA

DC Electrical Characteristics (Continued)

Symbol	Parameter	V _{CC}	T _A =	+25°C	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		Units	Conditions
Oymboi	i diametei	(V)	Min	Max	Min	Max	Omis	Conditions
V _{OL}	LOW Level	0.90		0.1		0.1		
	Output Voltage	$1.10 \leq V_{CC} \leq 1.30$		0.1		0.1		
		$1.40 \leq V_{CC} \leq 1.60$		0.1		0.1		I - 20 A
		$1.65 \leq V_{CC} \leq 1.95$		0.1		0.1		$I_{OL} = 20 \mu A$
		$2.30 \leq V_{CC} \leq 2.70$		0.1		0.1		
		$3.00 \leq V_{CC} \leq 3.60$		0.1		0.1	V	
		$1.10 \le V_{CC} \le 1.30$		0.30 x V _{CC}		0.30 x V _{CC}		I _{OL} = 0.5 mA
		$1.40 \le V_{CC} \le 1.60$		0.31		0.37		I _{OL} = 1 mA
		$1.65 \leq V_{CC} \leq 1.95$		0.31		0.35		I _{OL} = 1.5 mA
		$2.30 \leq V_{CC} \leq 2.70$		0.31		0.33		I _{OL} = 2.1 mA
		$3.00 \leq V_{CC} \leq 3.60$		0.31		0.33		I _{OL} = 2.6 mA
I _{IN}	Input Leakage Current	0.90 to 3.60		±0.1		±0.5	μΑ	$0 \le V_I \le 3.6V$
I _{OFF}	Power Off Leakage Current	0		0.5		0.5	μΑ	$0 \le (V_I, V_O) \le 3.6V$
I _{CC}	Quiescent Supply Current	0.90 to 3.60		0.9		0.9	μΑ	$V_I = V_{CC}$ or GND

AC Electrical Characteristics

Symbol	Parameter	v _{cc}	T _A = +25°C		$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		Units	Conditions	Figure	
Syllibol	Parameter	(V)	Min	Тур	Max	Min	Max	Units	Conditions	Number
t _{PHL}	Propagation Delay	0.90		24						
t _{PLH}		$1.10 \leq V_{CC} \leq 1.30$	4.0	9	18.7	3.5	30.9			
		$1.40 \leq V_{CC} \leq 1.60$	2.0	6	12.4	1.5	13.9	ns	C _L = 10 pF	
		$1.65 \leq V_{CC} \leq 1.95$	1.5	5	9.6	1.0	12.1	115	$R_L = 1 M\Omega$	
		$2.30 \leq V_{CC} \leq 2.70$	1.0	4	7.0	0.8	8.0			
		$3.00 \leq V_{CC} \leq 3.60$	1.0	3	5.7	0.5	6.9			
t _{PHL}	Propagation Delay	0.90		27						
t _{PLH}		$1.10 \leq V_{CC} \leq 1.30$	5.0	10	20.2	4.5	33.9			
		$1.40 \leq V_{CC} \leq 1.60$	3.0	7	13.3	2.5	16.0	ns	C _L = 15 pF	Figures 1, 2
		$1.65 \leq V_{CC} \leq 1.95$	2.0	5	10.3	2.0	12.6	115	$R_L = 1 M\Omega$	
		$2.30 \leq V_{CC} \leq 2.70$	1.5	4	7.4	1.0	8.2			
		$3.00 \leq V_{CC} \leq 3.60$	1.0	3	6.1	0.5	7.0			
t _{PHL}	Propagation Delay	0.90		34						
t _{PLH}		$1.10 \leq V_{CC} \leq 1.30$	6.0	12	24.0	5.0	43.0			
		$1.40 \leq V_{CC} \leq 1.60$	4.0	8	16.0	3.0	18.0	ns	$C_L = 30 pF$	
		$1.65 \leq V_{CC} \leq 1.95$	2.0	6	12.0	2.0	14.0	113	$R_L = 1 M\Omega$	
		$2.30 \leq V_{CC} \leq 2.70$	1.0	5	9.0	1.0	10.0			
		$3.00 \leq V_{CC} \leq 3.60$	8.0	4	7.0	0.5	8.9			
C _{IN}	Input Capacitance	0		2.0				pF		
C _{OUT}	Output Capacitance	0		4.0				pF		
C _{PD}	Power Dissipation Capacitance	0.9 to 3.60		6				pF	$V_I = 0V \text{ or } V_{CC},$ f = 10 MHz	

AC Loading and Waveforms

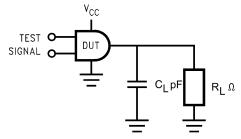


FIGURE 1. AC Test Circuit

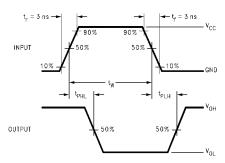


FIGURE 2. AC Waveforms

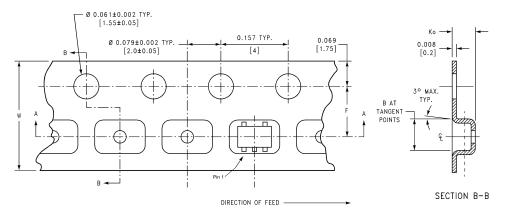
Symbol	V _{CC}							
- Cymbol	$3.3V \pm 0.3V$	$\textbf{2.5V} \pm \textbf{0.2V}$	$\textbf{1.8V} \pm \textbf{0.15V}$	1.5V ± 0.10V	$1.2V \pm 0.10V$	0.9V		
V _{mi}	1.5V	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2		
V _{mo}	1.5V	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2		

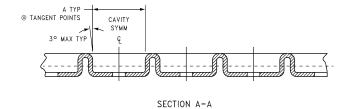
Tape and Reel Specification

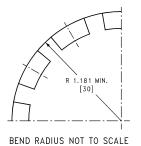
TAPE FORMAT for SC70

1741 = 1 014111741 101 4	30.0			
Package	Tape	Number	Cavity	Cover Tape
Designator	Section	Cavities	Status	Status
	Leader (Start End)	125 (typ)	Empty	Sealed
P5X	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (typ)	Empty	Sealed

TAPE DIMENSIONS inches (millimeters)







Size 0.059 0.512 0.795 2.165 0.331 + 0.059/-0.000 0.567 W1 + 0.078/-0.0	Tape and R			ation	(Continu	ed)			
Designator Section Cavities Status Status Status Sealed L6X Leader (Start End) 125 (typ) Empty Sealed S		WIICTOP		ne	-	Number	Cavity	Cover Tano	
LEX Leader (Start End) 125 (typ) Empty Sealed Seale				-			-		
LEX	Designator								
Trailer (Hub End) 75 (typ) Empty Sealed APE DIMENSIONS inches (millimeters) B									
APE DIMENSIONS inches (millimeters) 17540.05	L6X								
EEL DIMENSIONS inches (millimeters) EEL DIMENSIONS inches (millimeters) TAPE SLOT DETAIL X SCALE: 3X Tape A B C D N W1 W2 W3 Size N N N N N N N N N N N N N N N N N N N			Trailer (F	lub End)		75 (typ)	Empty	Sealed	
B SECTION B-B SCALE-10X SECTION AA SCALE-10X SECTION S Inches (millimeters) TAPE SLOT DETAIL X DETAIL X SCALE: 3X DETAIL X SCALE: 3X Tape A B C D N W1 W2 W3 Size A B C D N W1 W2 W3 Size A B C D N W1 W2 W3 Size A B C D N W1 W2 W3 Size A B C D N W1 W2 W3 Size A B C D N W1 W2 W3	2.00	4.00			- {		. 5° MA		
SECTION AA SCALE: 10X EEL DIMENSIONS inches (millimeters) TAPE SLOT DETAIL X SCALE: 3X Tape A B C D N W1 W2 W3 Size A B C D N W1 W2 W3 Size A B C D N W1 W2 W3 Size A B C D N W1 W2 W3 Size A B C D N W1 W2 W3	<u> </u>	Pin 1	, •	-00		DIRECTION OF FEED.			
Tape Size A B C D N W1 W2 W3 Size 7.0 0.059 0.512 0.795 2.165 0.331 + 0.059/-0.000 0.567 W1 + 0.078/-0.0	cz	<u></u>	SEC	TION A-A	0±0.05				
Tape Size 7.0 0.059 0.512 0.795 2.165 0.331 + 0.059/-0.000 0.567 W1 + 0.078/-0.0	REEL DIMENSION	IS inches	(millimete	rs)				→ ₩ ₁	
Size 7.0 0.059 0.512 0.795 2.165 0.331 + 0.059/-0.000 0.567 W1 + 0.078/-0.0	DETAIL X SCALE: 3X								
Size 7.0 0.059 0.512 0.795 2.165 0.331 + 0.059/-0.000 0.567 W1 + 0.078/-0.0		В	С	D	N	W1	W2	W3	
Rmm I I I I I I I I I I	Size								
	8 mm		0.512	0.795			0.567	W1 + 0.078/-0.039	
	(177.8)	(1.50)	(13.00)	(20.20)	(55.00)	(8.40 + 1.50/-0.00)	(14.40)	(W1 + 2.00/-1.00)	

NOTES:

- A. CONFORMS TO EIAJ REGISTERED OUTLINE DRAWING SC88A.
- B. DIMENSIONS DO NOT INCLUDE BURRS OR MOLD FLASH.

C. DIMENSIONS ARE IN MILLIMETERS.

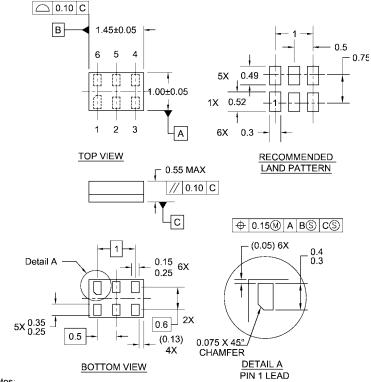
MAA05ARevC

-- 0.425 NOMINAL

DETAIL A

5-Lead SC70, EIAJ SC-88a, 1.25mm Wide Package Number MAA05A

Physical Dimensions inches (millimeters) unless otherwise noted (Continued)



Notes:

- 1. JEDEC PACKAGE REGISTRATION IS ANTICIPATED 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-1994

MAC06ARevB

6-Lead MicroPak, 1.0mm Wide Package Number MAC06A

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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