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Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild_questions@onsemi.com.

FAIRCHILD SEMICONDUCTOR®

November 2010

NC7SV00
TinyLogic® ULP-A 2-Input NAND 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
- Extremely High Speed t_{PD}
  - 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})
  - ±24mA at 3.00V V_{CC}
  - ±18mA at 2.30V V_{CC}
  - ±6mA at 1.65V V_{CC}
  - ±4mA at 1.4V V_{CC}
  - ±2mA at 1.1V V_{CC}
  - ±0.1mA at 0.9V V_{CC}
- Uses Proprietary Quiet Series™ Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Ultra-Low Dynamic Power

Description

The NC7SV00 is a single two-input NAND gate 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 NC7SV00 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
NC7SV00P5X	V00	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SV00L6X	F5	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SV00FHX	F5	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

Battery Life

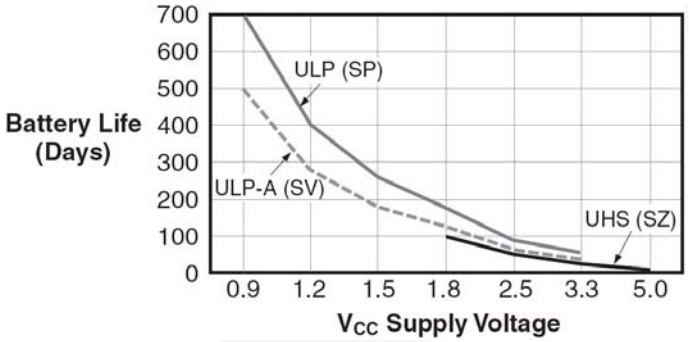

Figure 1. Battery Life vs. V_{CC} Supply Voltage

Notes:

1. TinyLogic® ULP and ULP-A with up to 50% less power consumption can extend battery life significantly.
   Battery Life = $(V_{battery} \bullet I_{battery} \bullet .9)/(P_{device})/24hrs/day$
   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

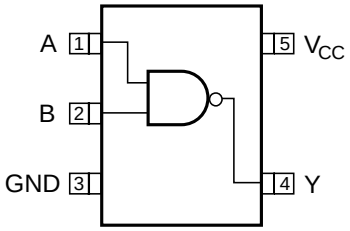

Figure 3. SC70 (Top View)

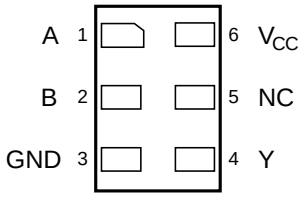

Figure 4. MicroPak™ (Top Through View)

Pin Definitions

Pin # SC70	Pin # MicroPak™	Name	Description
1	1	A	Input
2	2	B	Input
3	3	GND	Ground
4	4	Y	Output
	5	NC	No Connect
5	6	V_{CC}	Supply Voltage

Function Table

Inputs		Output
A	**B**	**Y**
L	L	H
L	H	H
H	L	H
H	H	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	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	HIGH or LOW State[3]	-0.5	V_{CC} + 0.5	V
		V_{CC}=0V	-0.5	4.6	
I_{IK}	DC Input Diode Current	V_{IN} < 0V		-50	mA
I_{OK}	DC Output Diode Current	V_{OUT} < 0V		-50	mA
		V_{OUT} > V_{CC}		+50	
I_{OH}/I_{OL}	DC Output Source/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
T_J	Junction Temperature Under Bias			+150	°C
T_L	Junction Lead Temperature, Soldering 10 Seconds			+260	°C
P_D	Power Dissipation at +85°C	SC70-5		150	mW
		MicroPak™-6		130	
		MicroPak2™-6		120	
ESD	Human Body Model, JEDEC:JESD22-A114			4000	V
	Charge Device Model, JEDEC:JESD22-C101			2000	

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_{OUT}	Output Voltage	V_{CC}=0V	0	3.6	V
		HIGH or LOW State	0	V_{CC}	
I_{OH}/I_{OL}	Output Current in I_{OH}/I_{OL}	V_{CC}=3.0V to 3.6V		±24.0	mA
		V_{CC}=2.3V to 3.6V		±18.0	
		V_{CC}=1.65V to 1.95V		±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
θ_{JA}	Thermal Resistance	SC70-5		425	°C/W
		MicroPak™-6		500	
		MicroPak2™-6		560	

Note:

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

DC Electrical Characteristics

Symbol	Parameter	V_{CC}	Conditions	T_A=25°C		T_A=-40 to 85°C		Units
				Min.	Max.	Min.	Max.	
V_{IH}	HIGH Level Input Voltage	0.90		.65 x V_{CC}		.65 x V_{CC}		V
		1.10 ≤ V_{CC} ≤ 1.30		.65 x V_{CC}		.65 x V_{CC}		
		1.40 ≤ V_{CC} ≤ 1.60		.65 x V_{CC}		.65 x V_{CC}		
		1.65 ≤ V_{CC} ≤ 1.95		.65 x V_{CC}		.65 x V_{CC}		
		2.30 ≤ V_{CC} ≤ 2.70		1.6		1.6		
		2.70 ≤ V_{CC} ≤ 3.60		2.0		2.0		
V_{IL}	LOW Level Input Voltage	0.90			.35 x V_{CC}		.35 x V_{CC}	V
		1.10 ≤ V_{CC} ≤ 1.30			.35 x V_{CC}		.35 x V_{CC}	
		1.40 ≤ V_{CC} ≤ 1.60			.35 x V_{CC}		.35 x V_{CC}	
		1.65 ≤ V_{CC} ≤ 1.95			.35 x V_{CC}		.35 x V_{CC}	
		2.30 ≤ V_{CC} ≤ 2.70			0.7		0.7	
		2.70 ≤ V_{CC} ≤ 3.60			0.8		0.8	
V_{OH}	HIGH Level Output Voltage	0.90	I_{OH}=-100µA	V_{CC}-0.1		V_{CC}-0.1		V
		1.10 ≤ V_{CC} ≤ 1.30		V_{CC}-0.1		V_{CC}-0.1		
		1.40 ≤ V_{CC} ≤ 1.60		V_{CC}-0.2		V_{CC}-0.2		
		1.65 ≤ V_{CC} ≤ 1.95		V_{CC}-0.2		V_{CC}-0.2		
		2.30 ≤ V_{CC} ≤ 2.70		V_{CC}-0.2		V_{CC}-0.2		
		2.70 ≤ V_{CC} ≤ 3.60		V_{CC}-0.2		V_{CC}-0.2		
		1.10 ≤ V_{CC} ≤ 1.30	I_{OH}=-2mA	.75 x V_{CC}		.75 x V_{CC}		
		1.40 ≤ V_{CC} ≤ 1.60	I_{OH}=-4mA	.75 x V_{CC}		.75 x V_{CC}		
		1.65 ≤ V_{CC} ≤ 1.95	I_{OH}=-6mA	1.25		1.25		
		2.30 ≤ V_{CC} ≤ 2.70		2.00		2.00		
		2.30 ≤ V_{CC} ≤ 2.70	I_{OH}=-12mA	1.8		1.8		
		2.70≤ V_{CC} ≤ 3.60		2.2		2.2		
		2.30 ≤ V_{CC} ≤ 2.70	I_{OH}=-18mA	1.7		1.7		
		2.70 ≤ V_{CC} ≤ 3.60		2.4		2.4		
		2.70 ≤ V_{CC} ≤ 3.60	I_{OH}=-24mA	2.2		2.2		

Continued on following page…

DC Electrical Characteristics (Continued)

Symbol	Parameter	V_{CC}	Conditions	T_A=25°C		T_A=-40 to 85°C		Units
				Min.	Max.	Min.	Max.	
V_{OL}	LOW Level Output Voltage	0.90	I_{OL}=100µA		0.1		0.1	V
		1.10 ≤ V_{CC} ≤ 1.30			0.1		0.1	
		1.40 ≤ V_{CC} ≤ 1.60			0.2		0.2	
		1.65 ≤ V_{CC} ≤ 1.95			0.2		0.2	
		2.30 ≤ V_{CC} ≤ 2.70			0.2		0.2	
		2.70 ≤ V_{CC} ≤ 3.60			0.2		0.2	
		1.10 ≤ V_{CC} ≤ 1.30	I_{OL}=2mA		0.25 x V_{CC}		0.25 x V_{CC}	
		1.40 ≤ V_{CC} ≤ 1.60	I_{OL}=4mA		0.25 x V_{CC}		0.25 x V_{CC}	
		1.65 ≤ V_{CC} ≤ 1.95	I_{OL}=6mA		0.3		0.3	
		2.30 ≤ V_{CC} ≤ 2.70	I_{OL}=12mA		0.4		0.4	
		2.70 ≤ V_{CC} ≤ 3.60			0.4		0.4	
		2.30≤ V_{CC} ≤ 2.70	I_{OL}=18mA		0.6		0.6	
		2.70 ≤ V_{CC} ≤ 3.60			0.4		0.4	
		2.70 ≤ V_{CC} ≤ 3.60	I_{OL}=24mA		0.55		0.55	
I_{IN}	Input Leakage Current	0.90 to 3.60	0 ≤ V_{IN} ≤ 3.60		±0.1		±0.5	µA
I_{OFF}	Power Off Leakage Current	0	0 ≤ (V_{IN}, v_O) ≤ 3.60		0.5		0.5	µA
I_{CC}	Quiescent Supply Current	0.90 to 3.60	V_{IN}=V_{CC}, or GND		0.9		0.9	µA
			V_{CC} ≤ V_{IN} ≤ 3.6V				±0.9	

AC Electrical Characteristics

Symbol	Parameter	V_{CC}	Conditions	T_A=25°C			T_A=-40 to 85°C		Units	Figure
				Min.	Typ.	Max.	Min.	Max.		
t_{PHL}, t_{PLH}	Propagation Delay	0.90	C_L=15pF, R_L=1MΩ		13				ns	Figure 5 Figure 6
		1.10 ≤ V_{CC} ≤ 1.30	C_L=15pF, R_L=2kΩ	3.0	6.0	9.9	1.0	14.6		
		1.40 ≤ V_{CC} ≤ 1.60		1.0	3.2	6.0	1.0	7.2		
		1.65 ≤ V_{CC} ≤ 1.95	C_L=30pF, R_L=500Ω	1.0	2.0	4.5	1.0	5.3		
		2.30 ≤ V_{CC} ≤ 2.70		0.8	1.2	2.6	0.7	3.7		
		2.70 ≤ V_{CC} ≤ 3.60		0.7	1.0	2.3	0.6	3.0		
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		8				pF	

AC Loadings and Waveforms

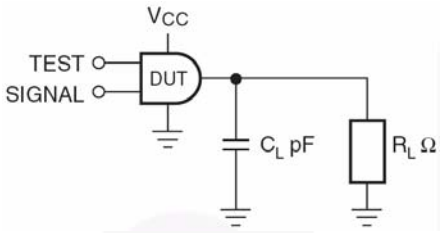

Figure 5. AC Test Circuit

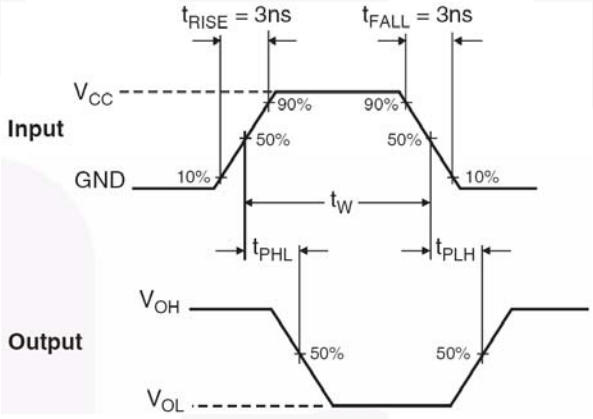

Figure 6. AC Waveforms

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	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$
V_{mo}	1.5V	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$

Physical Dimensions

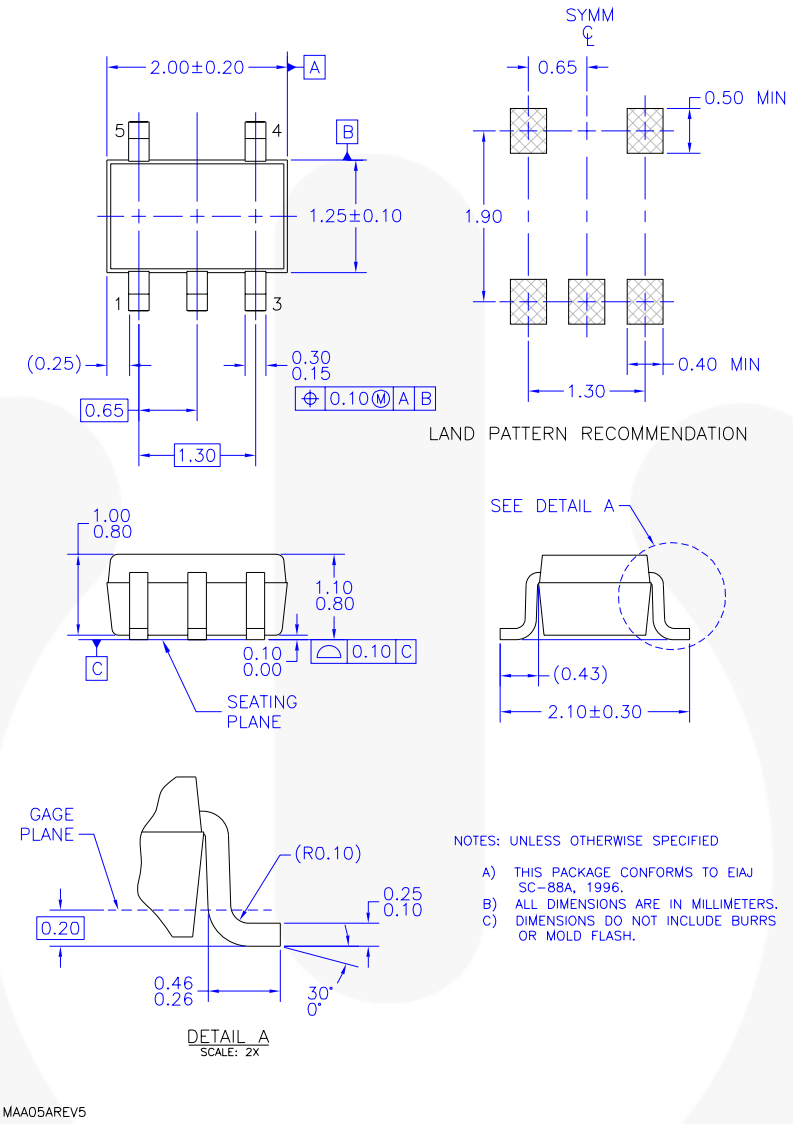

Figure 7. 5-Lead, SC70, EIAJ SC-88a, 1.25mm Wide

Package drawings are provided as a service to customers considering Fairchild components. Drawings may change in any manner without notice. Please note the revision and/or date on the drawing and contact a Fairchild Semiconductor representative to verify or obtain the most recent revision. Package specifications do not expand the terms of Fairchild's worldwide terms and conditions, specifically the warranty therein, which covers Fairchild products.

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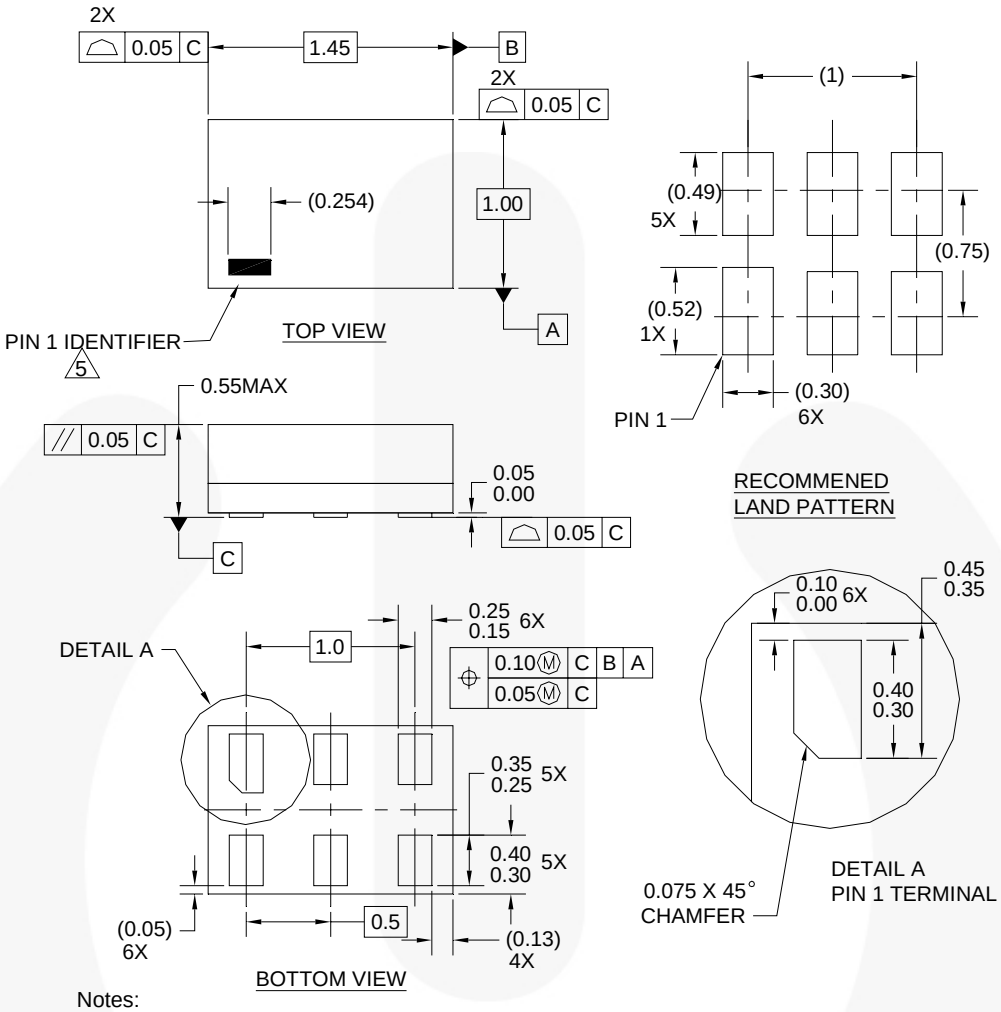
http://www.fairchildsemi.com/packaging/.

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
P5X	Leader (Start End)	125 (Typical)	Empty	Sealed
	Carrier	3000	Filled	Sealed
	Trailer (Hub End)	75 (Typical)	Empty	Sealed

Physical Dimensions



Notes:

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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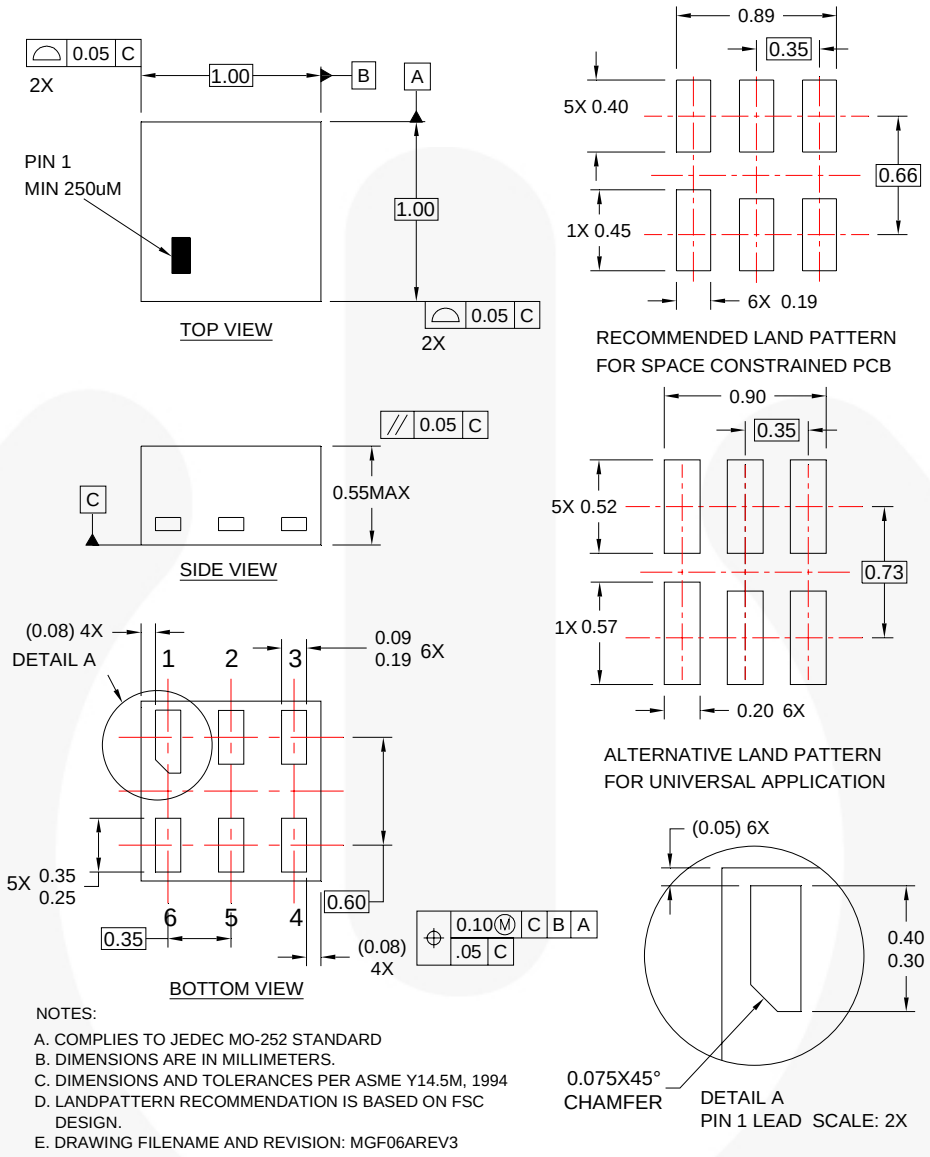
Tape and Reel Specification

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

Physical Dimensions



NOTES:

A. COMPLIES TO JEDEC MO-252 STANDARD
B. DIMENSIONS ARE IN MILLIMETERS.
C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994
D. LANDPATTERN RECOMMENDATION IS BASED ON FSC DESIGN.
E. DRAWING FILENAME AND REVISION: MGF06AREV3

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

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

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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.
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.

Rev. I51

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

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- 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**».

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