Is Now Part of

ON Semiconductor®

To learn more about ON Semiconductor, please visit our website at
www.onsemi.com

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®

December 2010

NC7SVL08
TinyLogic® Low-I_{CCT} Two-Input AND 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
- Power-Off High-Impedance Inputs and Outputs
- Proprietary Quiet Series™ Noise / EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Ultra-Low Dynamic Power

Description

The NC7SVL08 is a single two-input AND gate with a low-I_{CCT} input design from Fairchild's Ultra-Low Power (ULP-A) series of TinyLogic®. The NC7SVL08 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 NC7SVL08 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_{CC}), high drive needs (up to 24mA), and speed (maximum propagation delay of 3.5ns, V_{CC}=3.3V). It achieves this performance while maintaining low CMOS power dissipation.

Ordering Information

Part Number	Top Mark	Package	Packing Method
NC7SVL08P5X	L08	5-Lead SC70, EIAJ SC-88a, 1.25mm Wide	3000 Units on Tape & Reel
NC7SVL08L6X	CE	6-Lead MicroPak™, 1.00mm Wide	5000 Units on Tape & Reel
NC7SVL08FHX	CE	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

Connection Diagrams

Figure 1. Logic Symbol

Pin Configurations

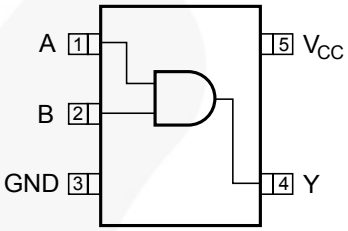


Figure 2. SC70 (Top View)

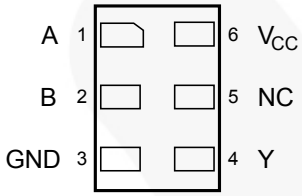


Figure 3. MicroPak™ (Top Through View)

Pin Definitions

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

Function Table

Y = AB

Inputs		Output
A	**B**	**Y**
L	L	L
L	H	L
H	L	L
H	H	H

L = Low Logic Level
H = High 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[1]	-0.5	V_{CC} to +0.5	V
		V_{CC}=0V	-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
		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
	Charged Device Model	JEDEC: JESD22-C101		2000	

Note:
1. The I_O 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[2]		0	3.6	V
V_{OUT}	Output Voltage	HIGH or LOW State	0	V_{CC}	V
		V_{CC}=0V	0	3.6	
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 2.7V		±18.0	
		V_{CC}=1.65V to 1.95V		±6.0	
		V_{CC}=1.40V to 1.60V		±4.0	
		V_{CC}=1.10V to 1.30V		±2.0	
		V_{CC}=0.9V		±0.1	µA
T_A	Free Air Operating Temperature		-40	+85	°C
$\Delta t / \Delta V$	Minimum Input Edge Rate	V_{IN}=0.8V to 2.0V, V_{CC}=3.0V		10	ns/V
θ_{JA}	Thermal Resistance	SC70-5		425	°C/W
		MicroPak™-6		500	
		MicroPak2™-6		560	

Note:
2. 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		0.65 x V_{CC}		0.65 x V_{CC}		V
		1.10 ≤ V_{CC} ≤ 1.30		0.65 x V_{CC}		0.65 x V_{CC}		
		1.40 ≤ V_{CC} ≤ 1.60		0.65 x V_{CC}		0.65 x V_{CC}		
		1.65 ≤ V_{CC} ≤ 1.95		0.9		0.9		
		2.30 ≤ V_{CC} ≤ 2.70		1.5		1.5		
		2.70 ≤ V_{CC} ≤ 3.60		1.5		1.5		
V_{IL}	LOW Level Input Voltage	0.90			0.25 x V_{CC}		0.25 x V_{CC}	V
		1.10 ≤ V_{CC} ≤ 1.30			0.25 x V_{CC}		0.25 x V_{CC}	
		1.40 ≤ V_{CC} ≤ 1.60			0.25 x V_{CC}		0.25 x V_{CC}	
		1.65 ≤ V_{CC} ≤ 1.95			0.25 x V_{CC}		0.25 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	0.75 x V_{CC}		0.75 x V_{CC}		
		1.40 ≤ V_{CC} ≤ 1.60	I_{OH}=-4mA	0.75 x V_{CC}		0.75 x V_{CC}		
		1.65 ≤ V_{CC} ≤ 1.95	I_{OH}=-6mA	1.25		1.25		
		2.30 ≤ V_{CC} ≤ 2.70		2.0		2.0		
		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		
V_{OL}	LOW Level Output Voltage	0.90	I_{OL}=100µA		0.10		0.10	V
		1.10 ≤ V_{CC} ≤ 1.30			0.10		0.10	
		1.40 ≤ V_{CC} ≤ 1.60			0.20		0.20	
		1.65 ≤ V_{CC} ≤ 1.95			0.20		0.20	
		2.30 ≤ V_{CC} ≤ 2.70			0.20		0.20	
		2.70 ≤ V_{CC} ≤ 3.60			0.20		0.20	
		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		0.30		0.30	
		2.30 ≤ V_{CC} ≤ 2.70	I_{OL}=12mA		0.40		0.40	
		2.70 ≤ V_{CC} ≤ 3.60			0.40		0.40	
		2.30 ≤ V_{CC} ≤ 2.70	I_{OL}=18mA		0.60		0.60	
		2.70 ≤ V_{CC} ≤ 3.60			0.40		0.40	
		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} ≤ 3.6V		±0.1		±0.5	µA
I_{OFF}	Power Off Leakage Current	0	0 ≤ (V_{IN}, V_O) ≤ 3.6V		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	
I_{CCT}	Increase in I_{CC} per Input	1.95	V_{IN}=0.9V		6		8	µA
		3.6	V_{IN}=1.5V		6		8	

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		45.0				ns	Figure 4, Figure 5
		1.10 ≤ V_{CC} ≤ 1.30	C_L=15pF, R_L=2kΩ	3.5	8.2	17.5	3.0	30.5		
		1.40 ≤ V_{CC} ≤ 1.60		1.5	4.0	7.0	1.5	7.5		
		1.65 ≤ V_{CC} ≤ 1.95	C_L=30pF, R_L=500Ω	1.1	3.0	5.5	1.0	6.0		
		2.30 ≤ V_{CC} ≤ 2.70		0.6	2.2	4.0	0.6	4.5		
		2.70 ≤ V_{CC} ≤ 3.60		0.5	1.6	3.5	0.5	4.0		
C_{IN}	Input Capacitance	0			3				pF	
C_{PD}	Power Dissipation Capacitance	0.90 to 3.60	V_{IN}=0V or V_{CC}, f=10MHz		5				pF	

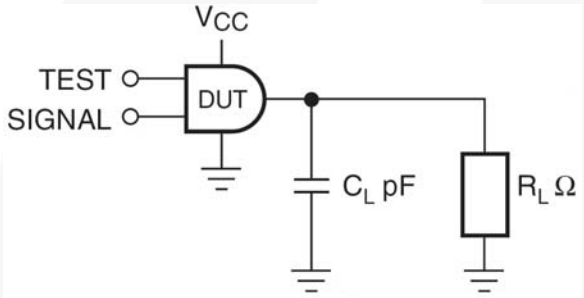


Figure 4. AC Test Circuit

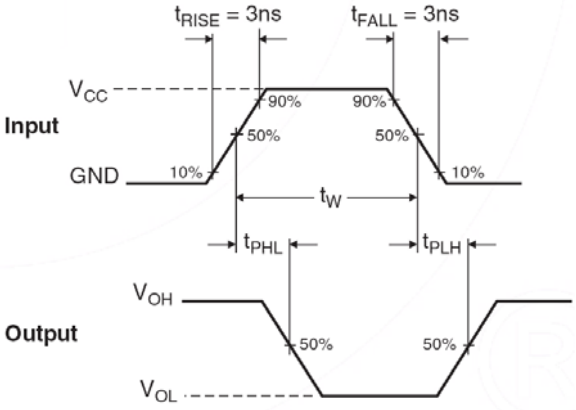


Figure 5. AC Waveforms

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

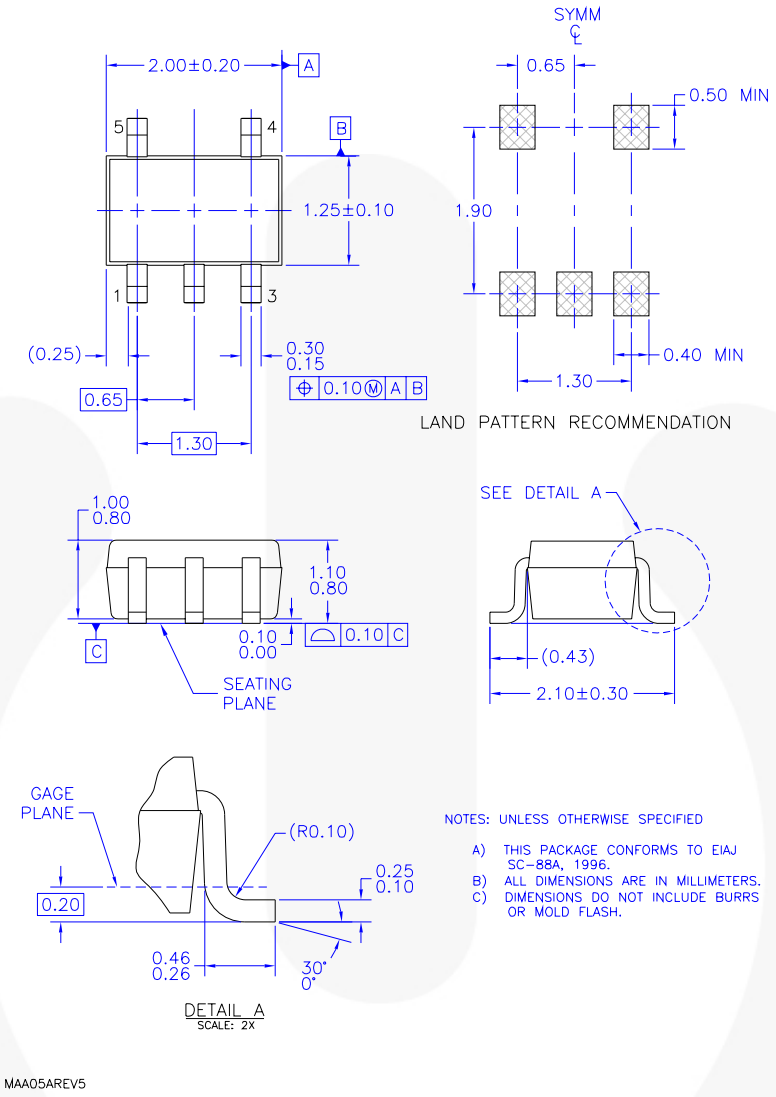


Figure 6. 5-Lead, SC70, EIAJ SC-88a, 1.25mm Wide

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.

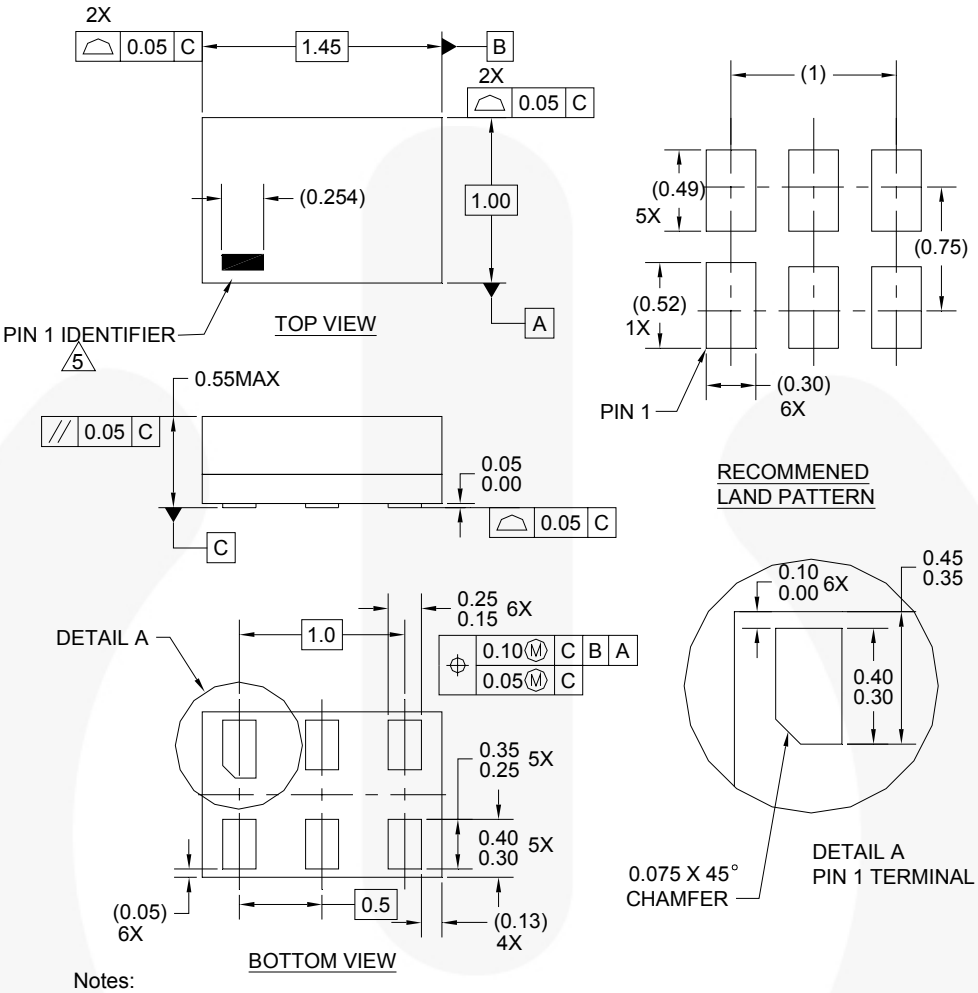
Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings:
http://www.fairchildsemi.com/packaging/.

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	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 7. 6-Lead, MicroPak™, 1.0mm 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.

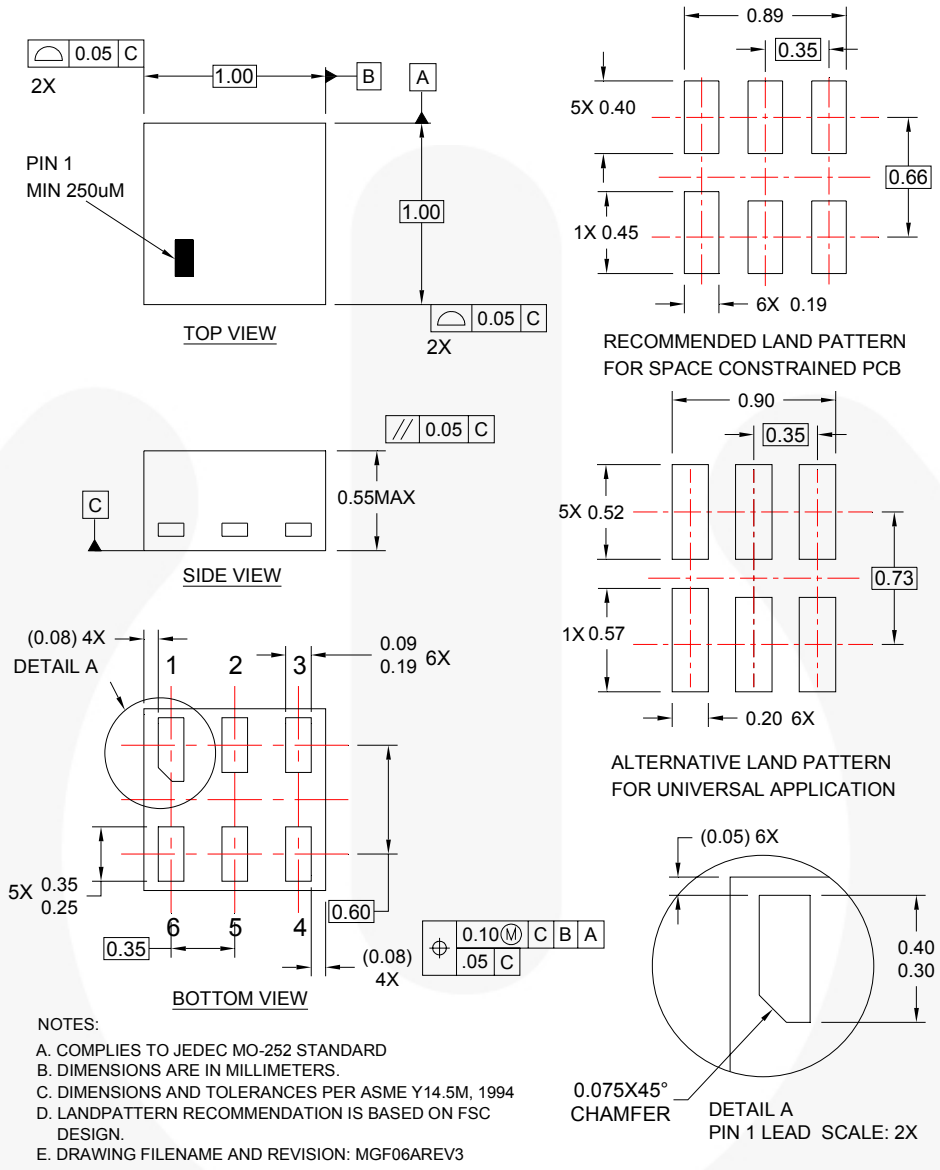
Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings:
http://www.fairchildsemi.com/packaging/.

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/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 8. 6-Lead, MicroPak™2, 1x1mm Body, .35mm Pitch

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.

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/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

FAIRCHILD SEMICONDUCTOR®

TRADEMARKS

The following includes registered and unregistered trademarks and service marks, owned by Fairchild Semiconductor and/or its global subsidiaries, and is not intended to be an exhaustive list of all such trademarks.

AccuPower™
Auto-SPM™
AX-CAP™*
Build it Now™
CorePLUS™
CorePOWER™
CROSSVOLT™
CTL™
Current Transfer Logic™
DEUXPEED®
Dual Cool™
EcoSPARK®
EfficientMax™
ESBC™
Fairchild®
Fairchild Semiconductor®
FACT Quiet Series™
FACT®
FAST®
FastvCore™
FETBench™
FlashWriter®*
FPS™
F-PFS™
FRFET®
Global Power Resource℠
Green FPS™
Green FPS™ e-Series™
Gmax™
GTO™
IntelliMAX™
ISOPLANAR™
MegaBuck™
MICROCOUPLER™
MicroFET™
MicroPak™
MicroPak2™
MillerDrive™
MotionMax™
Motion-SPM™
mWSaver™
OptoHiT™
OPTOLOGIC®
OPTOPLANAR®
PDP SPM™
Power-SPM™
PowerTrench®
PowerXS™
Programmable Active Droop™
QFET®
QS™
Quiet Series™
RapidConfigure™
Saving our world, 1mW/W/kW at a time™
SignalWise™
SmartMax™
SMART START™
SPM®
STEALTH™
SuperFET®
SuperSOT™-3
SuperSOT™-6
SuperSOT™-8
SupreMOS®
SyncFET™
Sync-Lock™
SYSTEM GENERAL®*
The Power Franchise®
The Right Technology for Your Success™
the power franchise
TinyBoost™
TinyBuck™
TinyCalc™
TinyLogic®
TINYOPTO™
TinyPower™
TinyPWM™
TinyWire™
TriFault Detect™
TRUECURRENT™*
µSerDes™
µSerDes
UHC®
Ultra FRFET™
UniFET™
VCX™
VisualMax™
XS™

* Trademarks of System General Corporation, used under license by Fairchild Semiconductor.

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
2. A critical component in any component of a life support, device, or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

ANTI-COUNTERFEITING POLICY

Fairchild Semiconductor Corporation's Anti-Counterfeiting Policy. Fairchild's Anti-Counterfeiting Policy is also stated on our external website, www.fairchildsemi.com, under Sales Support.

Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

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. I52

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:
Literature Distribution Center for ON Semiconductor
19521 E. 32nd Pkwy, Aurora, Colorado 80011 USA
Phone: 303−675−2175 or 800−344−3860 Toll Free USA/Canada
Fax: 303−675−2176 or 800−344−3867 Toll Free USA/Canada
Email: orderlit@onsemi.com

N. American Technical Support: 800−282−9855 Toll Free USA/Canada
Europe, Middle East and Africa Technical Support:
Phone: 421 33 790 2910
Japan Customer Focus Center
Phone: 81−3−5817−1050

ON Semiconductor Website: **www.onsemi.com**

Order Literature: http://www.onsemi.com/orderlit

For additional information, please contact your local Sales Representative

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ON Semiconductor:

NC7SVL08FHX NC7SVL08L6X NC7SVL08P5X

Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

Телефон: +7 812 627 14 35

Электронная почта: sales@st-electron.ru

Адрес: 198099, Санкт-Петербург,
Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331