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.

ON Semiconductor and the ON Semiconductor logo are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ON Semiconductor was negligent regarding the design or manufacture of the part. ON Semiconductor is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

FAIRCHILD SEMICONDUCTOR®

September 2012

74AUP1G96
TinyLogic® Low Power Universal Configurable Two-Input Logic Gate (Open Drain Output)

Features

- 0.8 V to 3.6V V_{CC} Supply Operation
- 3.6 V Over-Voltage Tolerant I/Os at V_{CC} from 0.8 V to 3.6 V
- Extremely High Speed t_{PD}
  - 3.2 ns: Typical at 3.3 V
- Power-Off High-Impedance Inputs and Outputs
- Low Static Power Consumption
  - I_{CC}=0.9 µA Maximum
- Low Dynamic Power Consumption
  - C_{PD}=3.0 pF Typical at 3.3 V
- Ultra-Small MicroPak™ Packages

Description

The 74AUP1G96 is a universal configurable. two-input logic gate with an open-drain output that provides a high-performance and low-power solution for battery-powered portable applications. This product is designed for a wide low voltage operating range (0.8 V to 3.6 V) and guarantees very low static and dynamic power consumption across the entire voltage range. All inputs are implemented with hysteresis to allow for slower transition input signals and better switching noise immunity.

The 74AUP1G96 provides for multiple functions as determined by various configurations of the three inputs. The potential logic functions provided are MUX, AND, OR, NAND, and, NOR inverter and buffer (*see Figure 2 to Figure 8*).

Ordering Information

Part Number	Top Mark	Package	Packing Method
74AUP1G96L6X	AP	6-Lead, MicroPak™ 1.0 x 1.45mm, JEDEC MO-252	5000 Units on Tape & Reel
74AUP1G96FHX	AP	6-Lead, MicroPak2™, 1x1mm Body, .35mm Pitch	5000 Units on Tape & Reel

© 2008 Fairchild Semiconductor Corporation

Pin Configurations

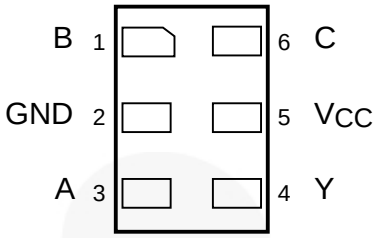


Figure 1. MicroPak™ (Top Through View)

Pin Definitions

Pin #	Name	Description
1	B	Data Input
2	GND	Ground
3	A	Data Input
4	Y	Output (Open Drain)
5	V_{CC}	Supply Voltage
6	C	Data Input

Function Table

Inputs			Y=Output
C	**B**	**A**	
L	L	L	H(1)
L	L	H	H(1)
L	H	L	L
L	H	H	L
H	L	L	H(1)
H	L	H	L
H	H	L	H(1)
H	H	H	L

H = HIGH Logic Level

L = LOW Logic Level

Note:

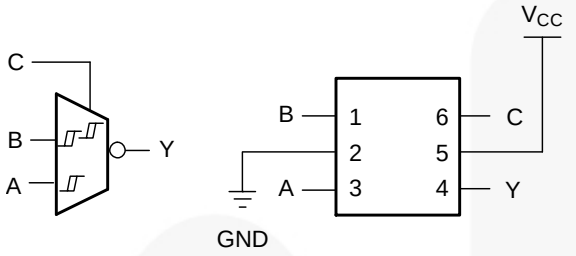
1. High impedance output state, open drain.

2-Input Logic Function	Connection Configuration
2-to-1 MUX with Inverted Output	Figure 2
2-Input NAND Gate	Figure 3
2-Input NOR Gate with One Inverted Input	Figure 4
2-Input AND Gate with One Inverted Input	Figure 4
2-Input NAND Gate with One Inverted Input	Figure 5
2-Input OR Gate with One Inverted Input	Figure 5
2-Input NOR Gate	Figure 6
Buffer	Figure 7
Inverter	Figure 8

© 2008 Fairchild Semiconductor Corporation

Logic Configurations

Figure 2 through Figure 8 show the logical functions that can be implemented using the 74AUP1G98. The diagrams show the DeMorgan's equivalent logic duals for a given two-input function. The logical implementation is next to the board-level physical implementation of how the pins of the function should be connected.



Note:
2. When C is L, Y=$\overline{B}$.
3. When C is H, Y=$\overline{A}$.

Figure 2. 2-to-1 MUX with Inverted Output

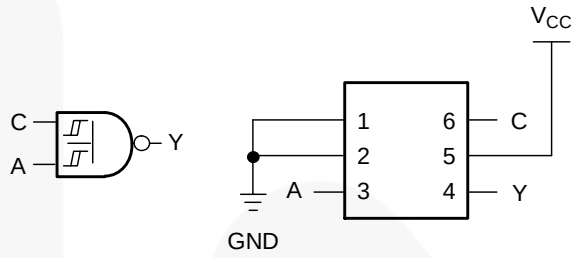


Figure 3. 2-Input NAND Gate

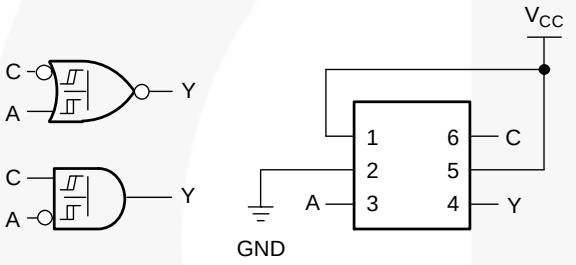


Figure 4. Input NOR Gate with One Inverted Input
2-Input AND Gate with One Inverted Input

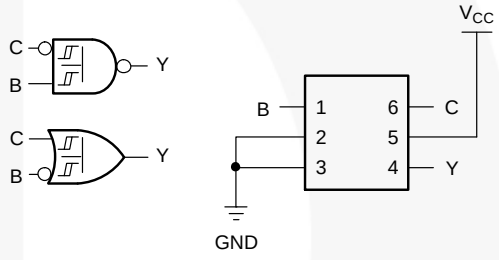


Figure 5. 2-Input NAND Gate with One Inverted Input
2-Input OR Gate with One Inverted Input

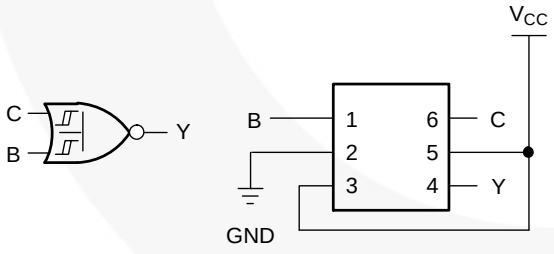


Figure 6. 2-Input NOR Gate

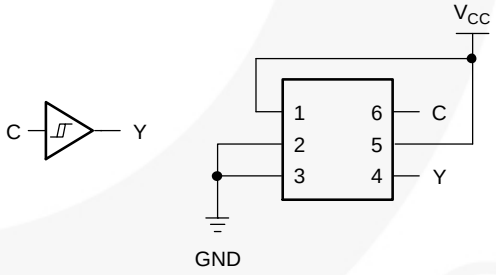


Figure 7. Buffer

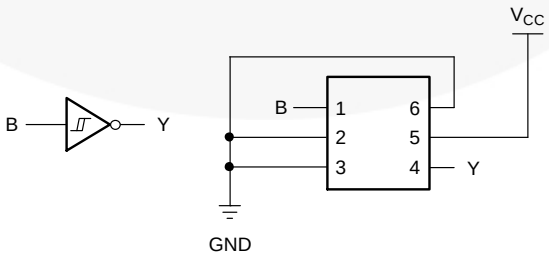


Figure 8. Inverter

© 2008 Fairchild Semiconductor Corporation

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}[(2)]	DC Output Voltage		-0.5	4.6	V
I_{IK}	DC Input Diode Current	V_{IN} < 0 V		-50	mA
I_{OK}	DC Output Diode Current	V_{OUT} < 0 V		-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
T_J	Junction Temperature Under Bias			+150	°C
T_L	Junction Lead Temperature, Soldering 10s			+260	°C
P_D	Power Dissipation at +85°C	MicroPak-6™		130	mW
		MicroPak2™-6		120	
ESD	Human Body Model, JEDEC:JESD22-A114			4000	V
	Charged Device Model, JEDEC:JESD22-C101			2000	

Note:

2. I_O absolute maximum rating must be observed.

Recommended Operating Conditions[(3)]

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	Condition	Min.	Max.	Unit
V_{CC}	Supply Voltage		0.8	3.6	V
V_{IN}	Input Voltage		0	3.6	V
V_{OUT}	Output Voltage		0	3.6	V
I_{OL}	Output Current	V_{CC}=3.0 V to 3.6 V		±4.0	mA
		V_{CC}=2.3 V to 2.7 V		±3.1	
		V_{CC}=1.65 V to 1.95 V		±1.9	
		V_{CC}=1.4 V to 1.6 V		±1.7	
		V_{CC}=1.1 V to 1.3 V		±1.1	
		V_{CC}=0.8 V		±20.0	µA
T_A	Operating Temperature, Free Air		-40	+85	°C
θ_{JA}	Thermal Resistance	MicroPak-6™		500	°C/W
		MicroPak2™-6		560	

Note:

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

© 2008 Fairchild Semiconductor Corporation

DC Electrical Characteristics

Symbol	Parameter	V_{CC}	Condition	T_A=25°C		T_A=-40 to 85°C		Unit
				Min.	Max.	Min.	Max.	
V_P	Positive Threshold Voltage	0.80		0.30	0.60	0.30	0.60	V
		1.10		0.53	0.90	0.53	0.90	
		1.40		0.74	1.11	0.74	1.11	
		1.65		0.91	1.29	0.91	1.29	
		2.30		1.37	1.77	1.37	1.77	
		3.00		1.88	2.29	1.88	2.29	
V_N	Negative Threshold Voltage	0.80		0.10	0.60	0.10	0.60	V
		1.10		0.26	0.65	0.26	0.65	
		1.40		0.39	0.75	0.39	0.75	
		1.65		0.47	0.84	0.47	0.84	
		2.30		0.69	1.04	0.69	1.04	
		3.00		0.88	1.24	0.88	1.24	
V_H	Hysteresis Voltage	0.80		0.07	0.50	0.07	0.50	V
		1.10		0.08	0.46	0.08	0.46	
		1.40		0.18	0.56	0.18	0.56	
		1.65		0.27	0.66	0.27	0.66	
		2.30		0.53	0.92	0.53	0.92	
		3.00		0.79	1.31	0.79	1.31	
V_{OL}	LOW Level Output Voltage	$0.80 \le V_{CC} \le 3.60$	I_{OL}=20 µA		0.10		0.10	V
		$1.10 \le V_{CC} \le 1.30$	I_{OL}=1.1 mA		0.30 x V_{CC}		0.30 x V_{CC}	
		$1.40 \le V_{CC} \le 1.60$	I_{OL}=1.7 mA		0.31		0.37	
		$1.65 \le V_{CC} \le 1.95$	I_{OL}=1.9 mA		0.31		0.35	
		$2.30 \le V_{CC} \le 2.70$	I_{OL}=3.1 mA		0.44		0.45	
		$2.70 \le V_{CC} \le 3.60$	I_{OL}=4.0 mA		0.44		0.45	
I_{IN}	Input Leakage Current	0 V to 3.6 V	$0 \le V_{IN} \le 3.6$ V		±0.1		±0.5	µA
I_{OFF}	Power Off Leakage Current	0 V	$0 \le (V_{IN}, V_O) \le 3.6$ V		0.2		0.6	µA
ΔI_{OFF}	Additional Power Off Leakage Current	0 V to 0.2 V	V_{IN} or V_O=0 V to 3.6 V		0.2		0.6	µA
I_{CC}	Quiescent Supply Current	0.8 V to 3.6 V	V_{IN} - V_{CC} or GND		0.5		0.9	µA
			$V_{CC} \le V_{IN} \le 3.6$ V				±0.9	
ΔI_{CC}	Increase in I_{CC} per Input	3.3 V	V_{IN}=V_{CC} -0.6 V		40.0		50.0	µA

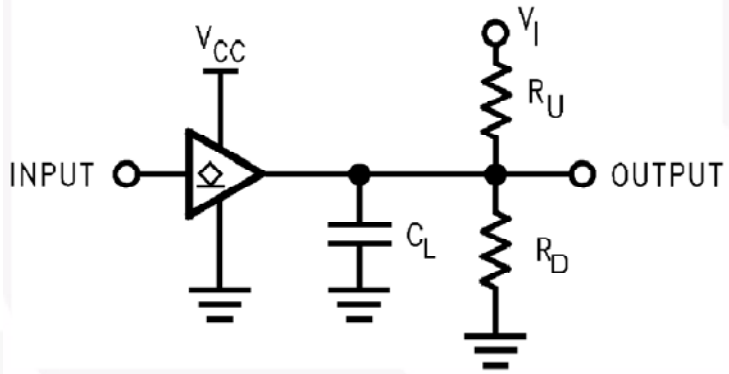
© 2008 Fairchild Semiconductor Corporation

AC Electrical Characteristics

Symbol	Parameter	V_{CC}	Condition	T_A=25°C			T_A=-40 to 85°C		Unit
				Min.	Typ.	Max.	Min.	Max.	
t_{PZL}, t_{PLZ}	Propagation Delay	0.80	C_L=15 pF, R_U=R_D=5 KΩ V_I = 2 x (V_{CC}) (*See Figure 9*)		30				
		1.10 ≤ V_{CC} ≤ 1.30		1.0	10.1	18.9	1.0	19.9	
		1.40 ≤ V_{CC} ≤ 1.60		1.0	6.6	11.4	1.0	12.2	
		1.65 ≤ V_{CC} ≤ 1.95		1.0	6.3	8.7	1.0	9.7	
		2.30 ≤ V_{CC} ≤ 2.70		1.0	4.7	6.9	1.0	7.5	
		3.00 ≤ V_{CC} ≤ 3.60		1.0	4.6	6.8	1.0	7.4	
C_{IN}	Input Capacitance	0			0.8				pF
C_{OUT}	Output Capacitance	0			1.7				pF
C_{PD}	Power Dissipation Capacitance	0.80	V_{IN}=0 V or V_{CC}, f=10 MHz		3.0				pF
		1.10 ≤ V_{CC} ≤ 1.30			3.1				
		1.40 ≤ V_{CC} ≤ 1.60			3.2				
		1.65 ≤ V_{CC} ≤ 1.95			3.4				
		2.30 ≤ V_{CC} ≤ 2.70			3.8				
		3.00 ≤ V_{CC} ≤ 3.60			4.4				

© 2008 Fairchild Semiconductor Corporation

AC Loadings and Waveforms



Notes:
4. C_L includes load and stray capacitance.
5. Input PRR = 1.0 MHz, t_W = 500 ns.

Figure 9. AC Test Circuit

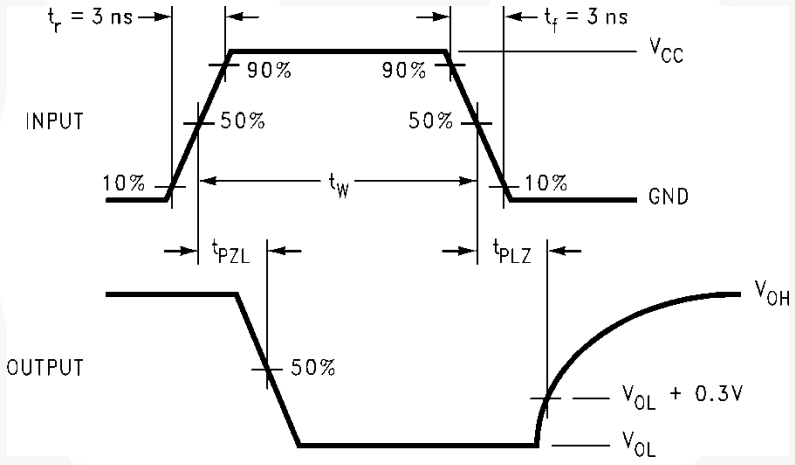
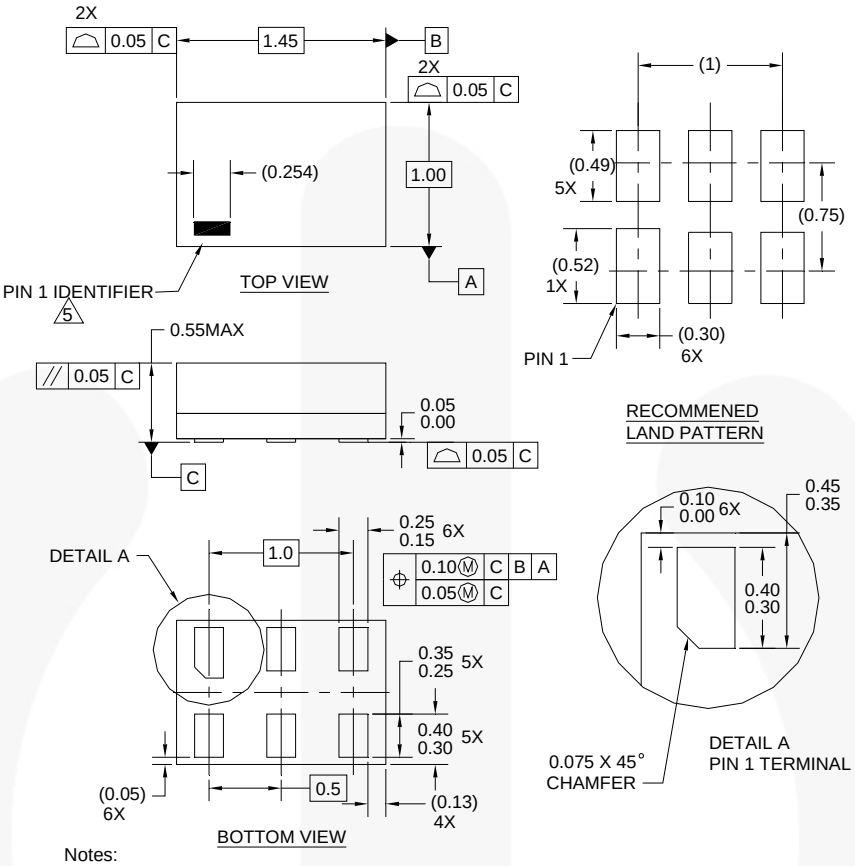


Figure 10. AC Waveforms

Symbol	V_{CC}					
	3.3 V ± 0.3 V	**2.5 V ± 0.2 V**	**1.8V ± 0.15 V**	**1.5 V ± 0.10 V**	**1.2 V ± 0.10 V**	**0.8 V**
V_{mi}	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$	$V_{CC}/2$
V_{mo}	V_{OL} + 0.3V	V_{OL} + 0.15V	V_{OL} + 0.15V	V_{OL} + 0.1V	V_{OL} + 0.1V	V_{OL} + 0.1V

© 2008 Fairchild Semiconductor Corporation

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 11. 6-Lead, MicroPak™, 1.0 mm 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.

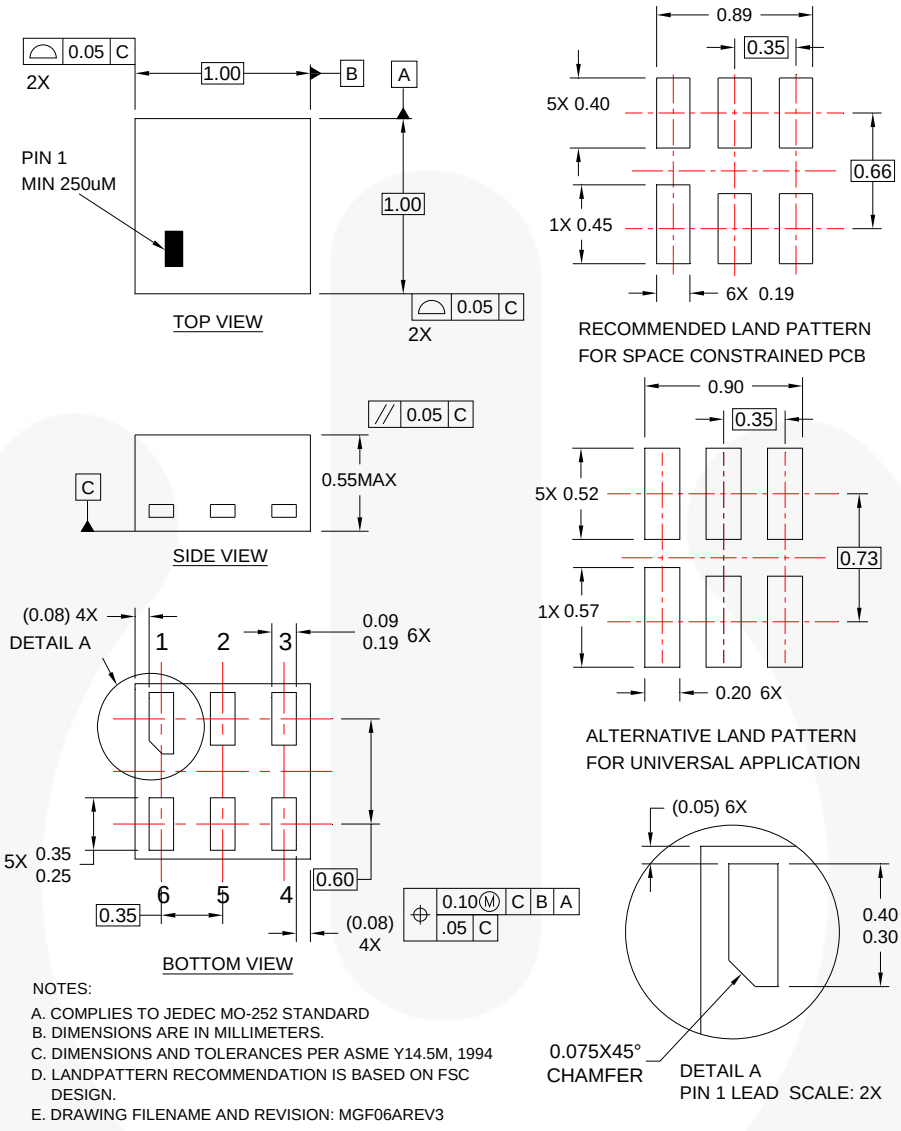
Always visit Fairchild Semiconductor's online packaging area for the most recent package drawings:
http://www.fairchildsemi.com/packaging/.

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 12. 6-Lead, MicroPak2™, 1x1 mm Body, .35 mm 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

© 2008 Fairchild Semiconductor Corporation

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.

2Cool™
AccuPower™
AX-CAP™*
BitSiC™
Build it Now™
CorePLUS™
CorePOWER™
CROSSVOLT™
CTL™
Current Transfer Logic™
DEUXPEED®
Dual Cool™
EcoSPARK®
EfficientMax™
ESBC™
F®
Fairchild®
Fairchild Semiconductor®
FACT Quiet Series™
FACT®
FAST®
FastvCore™
FETBench™
FlashWriter®*
FPS™
F-PFS™
FRFET®
Global Power Resource℠
GreenBridge™
Green FPS™
Green FPS™ e-Series™
G*max*™
GTO™
IntelliMAX™
ISOPLANAR™
Making Small Speakers Sound Louder and Better™
MegaBuck™
MICROCOUPLER™
MicroFET™
MicroPak™
MicroPak2™
MillerDrive™
MotionMax™
mWSaver™
OptoHiT™
OPTOLOGIC®
OPTOPLANAR®
PowerTrench®
PowerXS™
Programmable Active Droop™
QFET®
QS™
Quiet Series™
RapidConfigure™
™
Saving our world, 1mW/W/kW at a time™
SignalWise™
SmartMax™
SMART START™
Solutions for Your Success™
SPM®
STEALTH™
SuperFET®
SuperSOT™-3
SuperSOT™-6
SuperSOT™-8
SupreMOS®
SyncFET™
Sync-Lock™
SYSTEM GENERAL®*
The Power Franchise®
the power franchise
TinyBoost™
TinyBuck™
TinyCalc™
TinyLogic®
TINYOPTO™
TinyPower™
TinyPWM™
TinyWire™
TranSiC™
TriFault Detect™
TRUECURRENT®*
μSerDes™
SerDes
UHC®
Ultra FRFET™
UniFET™
VCX™
VisualMax™
VoltagePlus™
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. I62

© 2008 Fairchild Semiconductor Corporation

ON Semiconductor and ON are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent−Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that ON Semiconductor was negligent regarding the design or manufacture of the part. ON Semiconductor is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

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