



# NC7SV126

## TinyLogic® ULP-A Buffer with Three-State Output

### Features

- 0.9 V to 3.6 V  $V_{CC}$  Supply Operation
- 3.6 V Over-Voltage Tolerant I/O's at  $V_{CC}$  from 0.9 V to 3.6 V
- Extremely High Speed  $t_{PD}$ 
  - 1.0 ns: Typical for 2.7 V to 3.6 V  $V_{CC}$
  - 1.8 ns: Typical for 2.3 V to 2.7 V  $V_{CC}$
  - 3.0 ns: Typical for 1.65 V to 1.95 V  $V_{CC}$
  - 3.5 ns: Typical for 1.4 V to 1.6 V  $V_{CC}$
  - 6.0 ns: Typical for 1.1 V to 1.3 V  $V_{CC}$
  - 13.0 ns: Typical for 0.9 V  $V_{CC}$
- Power-Off High-Impedance Inputs and Outputs
- High Static Drive ( $I_{OH}/I_{OL}$ )
  - $\pm 24$  mA at 3.00 V  $V_{CC}$
  - $\pm 18$  mA at 2.30 V  $V_{CC}$
  - $\pm 6$  mA at 1.65 V  $V_{CC}$
  - $\pm 4$  mA at 1.4V  $V_{CC}$
  - $\pm 2$  mA at 1.1 V  $V_{CC}$
  - $\pm 0.1$  mA at 0.9 V  $V_{CC}$
- Uses Proprietary Quiet Series™ Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Leadfree Package
- Ultra-Low Dynamic Power

### Description

The NC7SV126 is a single buffer with 3-STATE output from Fairchild's Ultra-Low Power-A (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 (0.9 V to 3.6 V  $V_{CC}$ ) and applications that require more drive and speed than the TinyLogic® ULP series, but still offer best in class low power operation.

The NC7SV126 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.

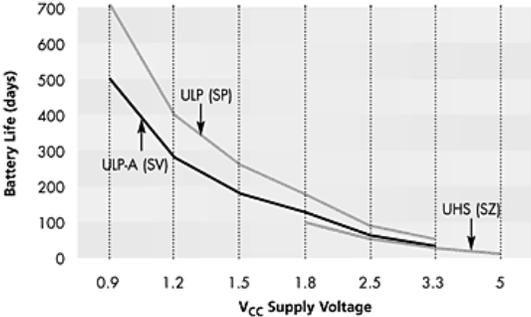
### Ordering Information

Part Number	Top Mark	Package	Packing Method
NC7SV126P5X	V26	5-Lead SC70, EIAJ SC-88a, 1.25 mm Wide	3000 Units on Tape & Reel
NC7SV126L6X	H7	6-Lead MicroPak™, 1.00 mm Wide	5000 Units on Tape & Reel

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## Battery Life



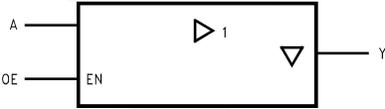
**Notes:**

1. TinyLogic® ULP and ULP-A with up to 50% less power consumption can extend your battery life significantly.  

$$\text{Battery Life} = (V_{\text{battery}} \cdot I_{\text{battery}} \cdot 0.9) / (P_{\text{device}}) / 24\text{hrs/day}$$
 Where,  $P_{\text{device}} = (I_{\text{CC}} \cdot V_{\text{CC}}) + (C_{\text{PD}} + C_{\text{L}}) \cdot V_{\text{CC}2} \cdot f$ .
2. Assumes ideal 3.6 V Lithium Ion battery with current rating of 900 mA and derated 90% and device frequency at 10 MHz, with  $C_{\text{L}} = 15 \text{ pF}$  load.

**Figure 1. Battery Life vs. V<sub>CC</sub> Supply Voltage**

## Connection Diagram



**Figure 2. Logic Symbol**

## Pin Configurations

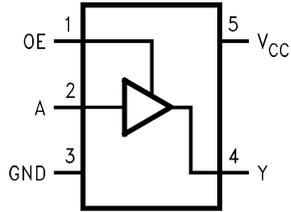


Figure 3. SC70 (Top View)

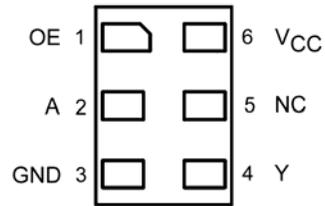


Figure 4. MicroPak (Top Through View)

## Pin Definitions

Pin # SC70	Pin # MicroPak	Name	Description
1	1	OE	Input
2	2	A	Input
3	3	GND	Ground
4	4	Y	Output
5	6	V <sub>CC</sub>	Supply Voltage
	5	NC	No Connect

## Function Table

Inputs		Output
OE	A	Out Y
H	L	L
H	H	H
L	X	Z

H = HIGH Logic Level

L = LOW Logic Level

X = HIGH or LOW Logic Level

Z = HIGH Impedance State

## 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 <sup>(3)</sup>	$V_{CC} + 0.5$	V
		$V_{CC} = 0\text{ V}$	4.6	
$I_{IK}$	DC Input Diode Current	$V_{IN} < 0\text{ V}$	-50	mA
$I_{OK}$	DC Output Diode Current	$V_{OUT} < 0\text{ V}$	-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
$P_D$	Power Dissipation at +85°C	SC70-5	150	mW
		MicroPak-6	130	
ESD	Human Body Model, JEDEC:JESD22-A114		4000	V
	Charge Device Model, JEDEC:JESD22-C101		2000	

**Note:**

- 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 Operating		0.9	3.6	V
$V_{IN}$	Input Voltage		0	3.6	V
$V_{OUT}$	Output Voltage	$V_{CC} = 0\text{ V}$	0	3.6	V
		HIGH or LOW State	0	$V_{CC}$	
$I_{OH}/I_{OL}$	Output Current	$V_{CC} = 3.0\text{ V to }3.6\text{ V}$		±24	mA
		$V_{CC} = 2.3\text{ V to }3.6\text{ V}$		±18	
		$V_{CC} = 1.65\text{ V to }1.95\text{ V}$		±6	
		$V_{CC} = 1.4\text{ V to }1.6\text{ V}$		±4	
		$V_{CC} = 1.1\text{ V to }1.3\text{ V}$		±2	
		$V_{CC} = 0.9\text{ V}$		±0.1	
$T_A$	Operating Temperature, Free Air		-40	+85	°C
$\Delta t/\Delta V$	Minimum Input Edge Rate	$V_{IN} = 0.8\text{ V to }2.0, V_{CC} = 3.0\text{ V}$		10	ns/V
$\theta_{JA}$	Thermal Resistance	SC70-5		425	°C/W
		MicroPak-6		500	

**Note:**

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

### DC Electrical Characteristics

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

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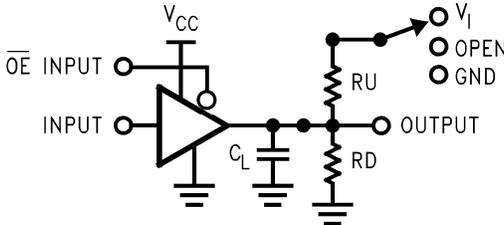
**DC Electrical Characteristics** (Continued)

Symbol	Parameter	V <sub>CC</sub>	Conditions	T <sub>A</sub> =25°C		T <sub>A</sub> =-40 to 85°C		Units
				Min.	Max.	Min.	Max.	
V <sub>OL</sub>	LOW Level Output Voltage	0.90	I <sub>OL</sub> =100 μA		0.1		0.1	V
		1.10 ≤ V <sub>CC</sub> ≤ 1.30			0.1		0.1	
		1.40 ≤ V <sub>CC</sub> ≤ 1.60			0.2		0.2	
		1.65 ≤ V <sub>CC</sub> ≤ 1.95			0.2		0.2	
		2.30 ≤ V <sub>CC</sub> ≤ 2.70			0.2		0.2	
		2.70 ≤ V <sub>CC</sub> ≤ 3.60			0.2		0.2	
		1.10 ≤ V <sub>CC</sub> ≤ 1.30	I <sub>OL</sub> =2 mA		0.25 x V <sub>CC</sub>		0.25 x V <sub>CC</sub>	
		1.40 ≤ V <sub>CC</sub> ≤ 1.60	I <sub>OL</sub> =4 mA		0.25 x V <sub>CC</sub>		0.25 x V <sub>CC</sub>	
		1.65 ≤ V <sub>CC</sub> ≤ 1.95	I <sub>OL</sub> =6 mA		0.3		0.3	
		2.30 ≤ V <sub>CC</sub> ≤ 2.70	I <sub>OL</sub> =12 mA		0.4		0.4	
		2.70 ≤ V <sub>CC</sub> ≤ 3.60			0.4		0.4	
		2.30 ≤ V <sub>CC</sub> ≤ 2.70	I <sub>OL</sub> =18 mA		0.6		0.6	
		2.70 ≤ V <sub>CC</sub> ≤ 3.60			0.4		0.4	
		2.70 ≤ V <sub>CC</sub> ≤ 3.60	I <sub>OL</sub> =24 mA		0.55		0.55	
I <sub>IN</sub>	Input Leakage Current	0.90 to 3.60	0 ≤ V <sub>IN</sub> ≤ 3.60		±0.1		±0.5	μA
I <sub>OZ</sub>	3-STATE Output Leakage	0.90 to 3.6	V <sub>IN</sub> =V <sub>IH</sub> or V <sub>IL</sub> 0 ≤ V <sub>IN</sub> ≤ 3.60		±0.5		±0.5	μA
I <sub>OFF</sub>	Power Off	0	0 ≤ (V <sub>IN</sub> , v <sub>o</sub> ) ≤ 3.60		0.5		0.5	μA
I <sub>CC</sub>	Quiescent Supply Current	0.90 to 3.60	V <sub>IN</sub> =V <sub>CC</sub> , or GND		0.9		0.9	μA
			V <sub>CC</sub> ≤ V <sub>IN</sub> ≤ 3.6 V				±0.9	

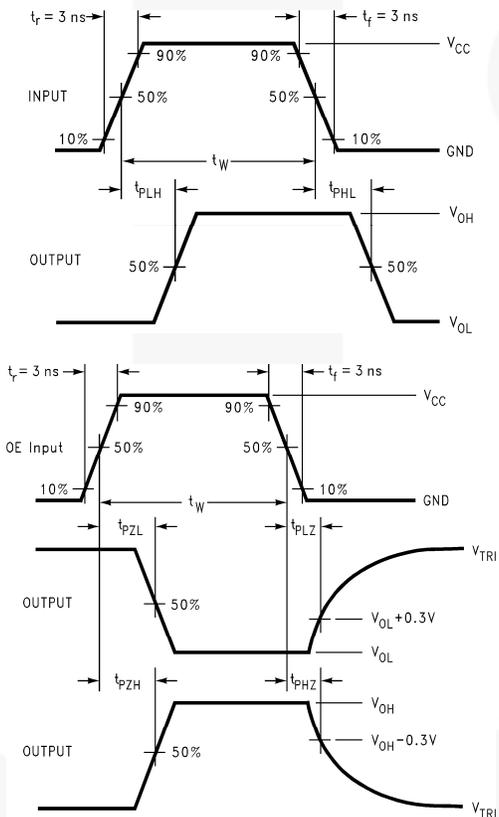
### AC Electrical Characteristics

Symbol	Parameter	V <sub>CC</sub>	Conditions	T <sub>A</sub> =25°C			T <sub>A</sub> =-40 to 85°C		Units	Figure
				Min.	Typ.	Max.	Min.	Max.		
t <sub>PHL</sub> , t <sub>PLH</sub>	Propagation Delay	0.90	C <sub>L</sub> =15 pF, R <sub>L</sub> =1 MΩ		13				ns	Figure 5 Figure 6
		1.10 ≤ V <sub>CC</sub> ≤ 1.30	C <sub>L</sub> =15 pF, R <sub>L</sub> =2 kΩ	3.0	6.0	9.8	1.9	14.9		
		1.40 ≤ V <sub>CC</sub> ≤ 1.60		1.0	3.5	5.3	0.8	5.7		
		1.65 ≤ V <sub>CC</sub> ≤ 1.95		0.9	3.0	4.3	0.8	4.6		
		2.30 ≤ V <sub>CC</sub> ≤ 2.60	C <sub>L</sub> =30 pF, R <sub>L</sub> =500 Ω	0.8	1.8	2.8	0.7	3.0		
		2.70 ≤ V <sub>CC</sub> ≤ 3.60		0.5	1.0	2.6	0.3	2.8		
t <sub>PZL</sub> , t <sub>PZH</sub>	Output Enable Time	0.90			12				ns	Figure 5 Figure 6
		1.10 ≤ V <sub>CC</sub> ≤ 1.30	C <sub>L</sub> =30 pF, R <sub>U</sub> =1 kΩ	3.0	6.0	9.7	2.0	16.4		
		1.40 ≤ V <sub>CC</sub> ≤ 1.60	R <sub>D</sub> =1 kΩ	1.2	4.0	6.0	1.0	7.5		
		1.65 ≤ V <sub>CC</sub> ≤ 1.95		1.0	3.0	4.5	0.9	5.0		
		2.30 ≤ V <sub>CC</sub> ≤ 2.60		0.8	2.0	3.0	0.7	3.4		
		2.70 ≤ V <sub>CC</sub> ≤ 3.60		0.5	1.2	2.6	0.4	2.9		
t <sub>PHZ</sub> , t <sub>PLZ</sub>	Output Disable Time	0.90			14				ns	Figure 5 Figure 6
		1.10 ≤ V <sub>CC</sub> ≤ 1.30	C <sub>L</sub> =30 pF, R <sub>U</sub> =1 kΩ	2.0	5.0	9.5	2.0	14.0		
		1.40 ≤ V <sub>CC</sub> ≤ 1.60	R <sub>D</sub> =1 kΩ	1.2	3.0	5.5	1.1	7.0		
		1.65 ≤ V <sub>CC</sub> ≤ 1.95		1.0	2.0	5.6	0.8	5.8		
		2.30 ≤ V <sub>CC</sub> ≤ 2.60		0.6	1.3	4.2	0.5	5.0		
		2.70 ≤ V <sub>CC</sub> ≤ 3.60		0.5	1.0	3.9	0.4	4.2		
C <sub>IN</sub>	Input Capacitance	0.00			2				pF	
C <sub>OUT</sub>	Output Capacitance	0.00			4.5				pF	
C <sub>PD</sub>	Power Dissipation Capacitance	0.90 to 3.60	V <sub>I</sub> =0 V or V <sub>CC</sub> , f=10 MHz		10				pF	

**AC Loadings and Waveforms**

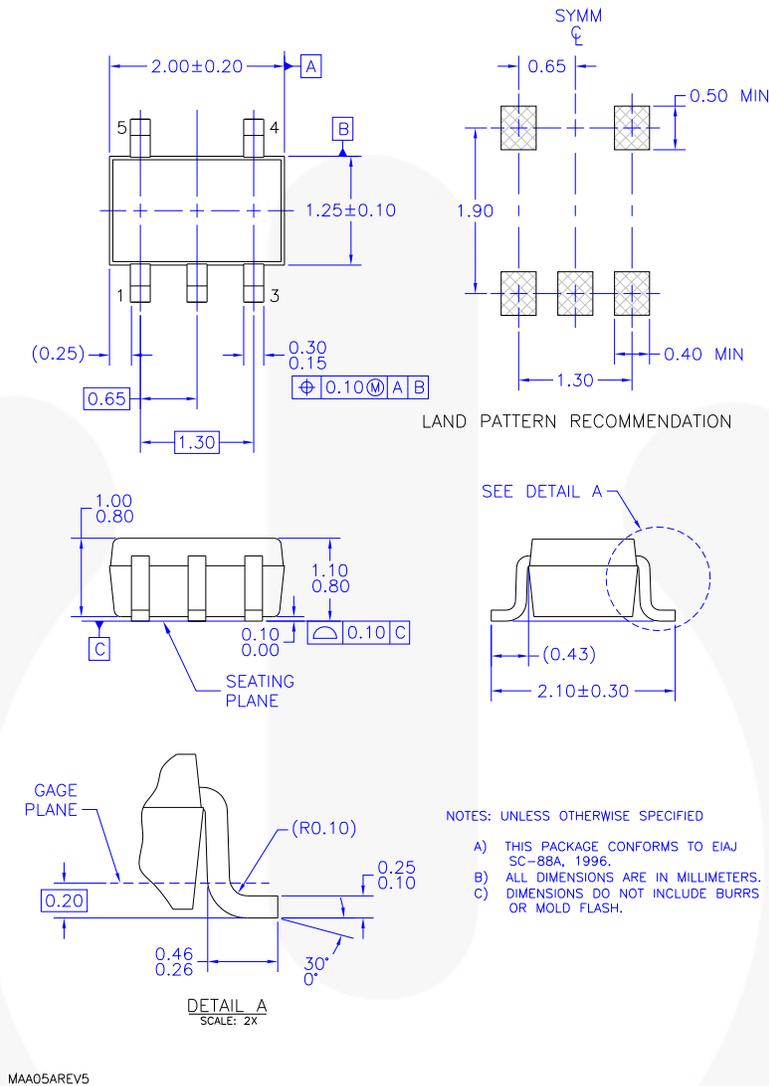


**Figure 5. AC Test Circuit**



**Figure 6. AC Waveforms**

## Physical Dimensions



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

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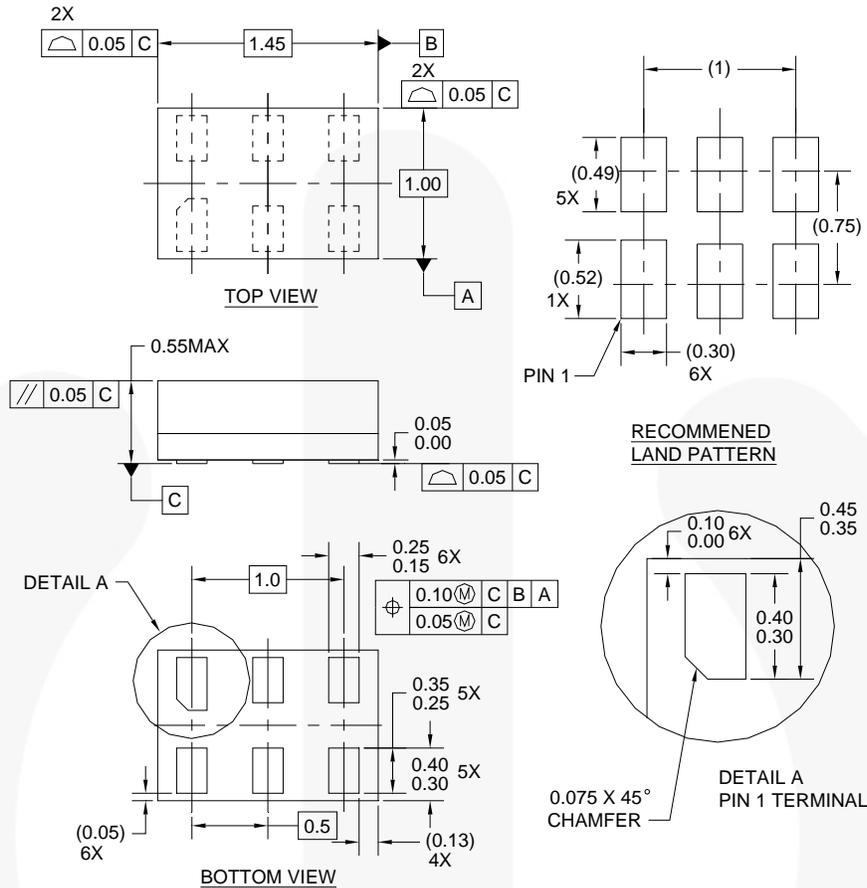
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## Tape and Reel Specification

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications:  
[http://www.fairchildsemi.com/products/analog/pdf/sc70-5\\_tr.pdf](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

MAC06AREVC

**Figure 8. 6-Lead, MicroPak™, 1.0mm Wide**

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[http://www.fairchildsemi.com/products/logic/pdf/micropak\\_tr.pdf](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



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| BitSiC™                  | Global Power Resource™                         | PowerXS™                              | TinyBuck®        |
| Build it Now™            | GreenBridge™                                   | Programmable Active Droop™            | TinyCalc™        |
| CorePLUS™                | Green FPS™                                     | QFET®                                 | TinyLogic™       |
| CorePOWER™               | Green FPS™ e-Series™                           | QST™                                  | TINYOPTO™        |
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| CTL™                     | GTO™   | RapidConfigure™                       | TinyPWM™         |
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| EcoSPARK®                | MegaBuck™                                      | SmartMax™                             | TRUECURRENT®     |
| EfficientMax™            | MICROCOUPLER™                                  | SMART START™                          | µSerDes™         |
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|                          | MicroPak™                                      | SPM®                                  | UHC®             |
| Fairchild®               | MicroPak2™                                     | STEALTH™                              | Ultra FRFET™     |
| Fairchild Semiconductor® | MillerDrive™                                   | SuperFET®                             | UniFET™          |
| FACT Quiet Series™       | MotionMax™                                     | SuperSOT™-3                           | VCX™             |
| FACT®                    | mWSaver®                                       | SuperSOT™-6                           | VisualMax™       |
| FAST®                    | OptoHiT™                                       | SuperSOT™-8                           | VoltagePlus™     |
| FastvCore™               | OPTOLOGIC®                                     | SupreMOS®                             | XST™             |
| FETBench™                | OPTOPLANAR®                                    | SyncFET™                              | 仙童™              |
| FPS™                     |  | Sync-Lock™                            |                  |

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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](http://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. 168

# AMEYA360

## Components Supply Platform

Authorized Distribution Brand :



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