



# NC7SZ157

## TinyLogic® UHS 2-Input Non-Inverting Multiplexer

### Features

- Broad  $V_{CC}$  Operating Range: 1.65V to 5.5V
- Ultra High-Speed
- Power Down High-Impedance Inputs/Outputs
- Over-Voltage Tolerance Inputs Facilitate 5V to 3V Translation
- Proprietary Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Space-Saving SC70 Package

### Description

The NC7SZ157 is a single, high performance, 2-to-1 CMOS non-inverting multiplexer from Fairchild's Ultra-High Speed series of TinyLogic®. The device is fabricated with advanced CMOS technology to achieve ultra high speed with high output drive while maintaining low static power dissipation over a broad  $V_{CC}$  operating range. The device is specified to operate over the 1.65V to 5.5V  $V_{CC}$  operating range. The inputs and outputs are high impedance when  $V_{CC}$  is 0V. Inputs tolerate voltages up to 5.5V independent of  $V_{CC}$  operating range.

### Ordering Information

| Part Number | Top Mark |  Eco Status | Package                                    | Packing Method            |
|-------------|----------|------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------|
| NC7SZ157P6X | ZF7      | RoHS                                                                                           | 6-Lead SC70, EIAJ SC-88, 1.25mm Wide       | 3000 Units on Tape & Reel |
| NC7SZ157L6X | B9       | RoHS                                                                                           | 6-Lead MicroPak™, 1.00mm Wide              | 5000 Units on Tape & Reel |
| NC7SZ157FHX | B9       | Green                                                                                          | 6-Lead, MicroPak2, 1x1mm Body, .35mm Pitch | 5000 Units on Tape & Reel |

 For Fairchild's definition of Eco Status, please visit: [http://www.fairchildsemi.com/company/green/rohs\\_green.html](http://www.fairchildsemi.com/company/green/rohs_green.html).

## Connection Diagrams

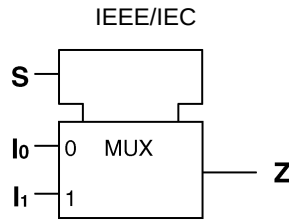


Figure 1. Logic Symbol

## Pin Configurations

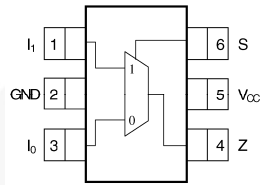


Figure 2. SC70 (Top View)

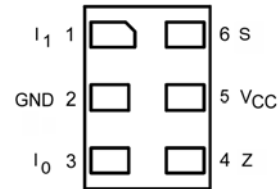


Figure 3. MicroPak™ (Top Through View)

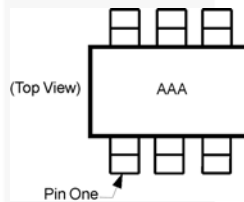


Figure 4. Pin 1 Orientation

### Notes:

1. AAA represents product code top mark (see *Ordering Information*).
2. Orientation of top mark determines pin one location.
3. Reading the top mark left to right, pin one is the lower left pin.

## Pin Definitions

| Pin # SC70 | Pin # MicroPak | Name            | Description    |
|------------|----------------|-----------------|----------------|
| 1          | 1              | I <sub>1</sub>  | Data Input     |
| 2          | 2              | GND             | Ground         |
| 3          | 3              | I <sub>0</sub>  | Data Input     |
| 4          | 4              | Z               | Output         |
| 5          | 5              | V <sub>CC</sub> | Supply Voltage |
| 6          | 6              | S               | Control Input  |

## Function Table

| Inputs |                |                | Output                                             |
|--------|----------------|----------------|----------------------------------------------------|
| S      | I <sub>1</sub> | I <sub>0</sub> | $Z = (I_0) \cdot (S) + (I_1) \cdot (\overline{S})$ |
| L      | X              | L              | L                                                  |
| L      | X              | H              | H                                                  |
| H      | L              | X              | L                                                  |
| H      | H              | X              | H                                                  |

H = HIGH Logic Level

L = LOW Logic Level

X = Don't Care

## 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                 | 7.0      | V    |
| $V_{IN}$              | DC Input Voltage                                  | -0.5                 | 7.0      | V    |
| $V_{OUT}$             | DC Output Voltage                                 | -0.5                 | 7.0      | V    |
| $I_{IK}$              | DC Input Diode Current                            | $V_{IN} \leq 0.5V$   | -50      | mA   |
| $I_{OK}$              | DC Output Diode Current                           | $V_{OUT} \leq -0.5V$ | -50      | mA   |
| $I_{OUT}$             | DC Output Current                                 |                      | $\pm 50$ | mA   |
| $I_{CC}$ or $I_{GND}$ | DC $V_{CC}$ or Ground Current                     |                      | $\pm 50$ | 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                        | SC70-6               | 180      | mW   |
|                       |                                                   | MicroPak-6           | 130      |      |
|                       |                                                   | MicroPak2-6          | 120      |      |
| ESD                   | Human Body Model, JEDEC:JESD22-A114               |                      | 4000     | V    |
|                       | Charge Device Model, JEDEC:JESD22-C101            |                      | 2000     |      |

## 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      |                                                   | 1.65 | 5.50     | V    |
|               | Supply Voltage Data Retention |                                                   | 1.50 | 5.50     |      |
| $V_{IN}$      | Input Voltage                 |                                                   | 0    | 5.5      | V    |
| $V_{OUT}$     | Output Voltage                |                                                   | 0    | $V_{CC}$ | V    |
| $T_A$         | Operating Temperature         |                                                   | -40  | +85      | °C   |
| $t_r, t_f$    | Input Rise and Fall Times     | $V_{CC}$ at $1.8V \pm 0.15V$ ,<br>$2.5V \pm 0.2V$ | 0    | 20       | ns/V |
|               |                               | $V_{CC}$ at $3.3V \pm 0.3V$                       | 0    | 10       |      |
|               |                               | $V_{CC}$ at $5.0V \pm 0.5V$                       | 0    | 5        |      |
| $\theta_{JA}$ | Thermal Resistance            | SC70-6                                            |      | 350      | °C/W |
|               |                               | MicroPak-6                                        |      | 500      |      |
|               |                               | MicroPak2-6                                       |      | 560      |      |

## 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.                     | Typ. | Max.                | Min.                         | Max.                |       |
| V <sub>IH</sub>  | HIGH Level Input Voltage  | 1.65 to 1.95    |                                                        | 0.75V <sub>CC</sub>      |      |                     | 0.75V <sub>CC</sub>          |                     | V     |
|                  |                           | 2.30 to 5.50    |                                                        | 0.70V <sub>CC</sub>      |      |                     | 0.70V <sub>CC</sub>          |                     |       |
| V <sub>IL</sub>  | LOW Level Input Voltage   | 1.65 to 1.95    |                                                        |                          |      | 0.25V <sub>CC</sub> |                              | 0.25V <sub>CC</sub> | V     |
|                  |                           | 2.30 to 5.50    |                                                        |                          |      | 0.30V <sub>CC</sub> |                              | 0.30V <sub>CC</sub> |       |
| V <sub>OH</sub>  | HIGH Level Output Voltage | 1.65            | V <sub>IN</sub> =V <sub>IL</sub><br>or V <sub>IH</sub> | I <sub>OH</sub> = -100μA | 1.55 | 1.65                |                              | 1.55                | V     |
|                  |                           | 2.30            |                                                        |                          | 2.20 | 2.30                |                              | 2.20                |       |
|                  |                           | 3.00            |                                                        |                          | 2.90 | 3.00                |                              | 2.90                |       |
|                  |                           | 4.50            |                                                        |                          | 4.40 | 4.50                |                              | 4.40                |       |
|                  |                           | 1.65            | V <sub>IN</sub> =V <sub>IL</sub><br>or V <sub>IH</sub> | I <sub>OH</sub> = -4mA   | 1.29 | 1.52                |                              | 1.29                |       |
|                  |                           | 2.30            |                                                        | I <sub>OH</sub> = -8mA   | 1.90 | 2.15                |                              | 1.90                |       |
|                  |                           | 3.00            |                                                        | I <sub>OH</sub> = -16mA  | 2.40 | 2.80                |                              | 2.40                |       |
|                  |                           | 3.00            |                                                        | I <sub>OH</sub> = -24mA  | 2.30 | 3.68                |                              | 2.30                |       |
|                  |                           | 4.50            |                                                        | I <sub>OH</sub> = -32mA  | 3.90 | 4.20                |                              | 3.80                |       |
|                  |                           |                 |                                                        |                          |      |                     |                              |                     |       |
| V <sub>OL</sub>  | LOW Level Output Voltage  | 1.65            | V <sub>IN</sub> =V <sub>IL</sub><br>or V <sub>IH</sub> | I <sub>OL</sub> = 100μA  |      | 0                   | 0.10                         | 0.10                | V     |
|                  |                           | 2.30            |                                                        |                          |      | 0                   | 0.10                         | 0.10                |       |
|                  |                           | 3.00            |                                                        |                          |      | 0                   | 0.10                         | 0.10                |       |
|                  |                           | 4.50            |                                                        |                          |      | 0                   | 0.10                         | 0.10                |       |
|                  |                           | 1.65            | V <sub>IN</sub> =V <sub>IL</sub><br>or V <sub>IH</sub> | I <sub>OL</sub> = 4mA    |      | 0.08                | 0.24                         | 0.24                | V     |
|                  |                           | 2.30            |                                                        | I <sub>OL</sub> = 8mA    |      | 0.10                | 0.30                         | 0.30                |       |
|                  |                           | 3.00            |                                                        | I <sub>OL</sub> = 16mA   |      | 0.15                | 0.40                         | 0.40                |       |
|                  |                           | 3.00            |                                                        | I <sub>OL</sub> = 24mA   |      | 0.22                | 0.55                         | 0.55                |       |
|                  |                           | 4.5             |                                                        | I <sub>OL</sub> = 32mA   |      | 0.22                | 0.55                         | 0.55                |       |
|                  |                           |                 |                                                        |                          |      |                     |                              |                     |       |
| I <sub>IN</sub>  | Input Leakage Current     | 0 to 5.50       | V <sub>IN</sub> =5.5V, GND                             |                          |      | ±0.1                |                              | ±1                  | μA    |
| I <sub>OFF</sub> | Power Off Leakage Current | 0               | V <sub>IN</sub> or V <sub>OUT</sub> =5.5V              |                          |      | 1                   |                              | 10                  | μA    |
| I <sub>CC</sub>  | Quiescent Supply Current  | 1.65 to 5.50    | V <sub>IN</sub> =5.5V, GND                             |                          |      |                     |                              | 10                  | μA    |

## 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>PLH</sub> , t <sub>PHL</sub> | Propagation Delay<br>S to Z                     | 1.80 ± 0.15     | C <sub>L</sub> =15pF,<br>R <sub>L</sub> =1MΩ,  | 2.5                   | 6.0  | 11.5 | 2.5                          | 12.0 | ns    | Figure 5<br>Figure 6 |
|                                     |                                                 | 2.50 ± 0.20     |                                                | 1.2                   | 3.5  | 6.1  | 1.2                          | 6.5  |       |                      |
|                                     |                                                 | 3.30 ± 0.30     |                                                | 0.8                   | 2.6  | 4.1  | 0.8                          | 4.5  |       |                      |
|                                     |                                                 | 5.00 ± 0.50     |                                                | 0.5                   | 1.9  | 3.2  | 0.5                          | 3.5  |       |                      |
|                                     | Propagation Delay<br>I <sub>n</sub> to Z        | 1.80 ± 0.15     | C <sub>L</sub> =15pF,<br>R <sub>L</sub> =1MΩ,  | 2.5                   | 5.9  | 10.0 | 2.5                          | 10.5 |       |                      |
|                                     |                                                 | 5.00 ± 0.50     |                                                | 1.2                   | 3.5  | 5.8  | 1.2                          | 6.1  |       |                      |
|                                     |                                                 | 3.30 ± 0.30     |                                                | 0.8                   | 2.6  | 3.9  | 0.8                          | 4.2  |       |                      |
|                                     |                                                 | 5.00 ± 0.50     |                                                | 0.5                   | 1.9  | 3.1  | 0.5                          | 3.3  |       |                      |
|                                     | Propagation Delay<br>S to Z                     | 3.30 ± 0.30     | C <sub>L</sub> =50pF,<br>R <sub>L</sub> =500Ω, | 1.2                   | 3.2  | 4.8  | 1.2                          | 5.2  |       |                      |
|                                     |                                                 | 5.00 ± 0.50     |                                                | 0.8                   | 2.4  | 3.8  | 0.8                          | 4.1  |       |                      |
|                                     | Propagation Delay<br>I <sub>n</sub> to Z        | 3.30 ± 0.30     | C <sub>L</sub> =50pF,<br>R <sub>L</sub> =500Ω, | 1.2                   | 3.2  | 4.6  | 1.2                          | 5.0  |       |                      |
|                                     |                                                 | 5.00 ± 0.50     |                                                | 0.8                   | 2.4  | 3.7  | 0.8                          | 4.0  |       |                      |
| C <sub>IN</sub>                     | Input Capacitance                               | 0.00            |                                                |                       | 2    |      |                              |      | pF    |                      |
| C <sub>PD</sub>                     | Power Dissipation<br>Capacitance <sup>(4)</sup> | 3.30            |                                                |                       | 14   |      |                              |      | pF    | Figure 7             |
|                                     |                                                 | 5.00            |                                                |                       | 17   |      |                              |      |       |                      |

**Note:**

4. C<sub>PD</sub> is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I<sub>CCD</sub>) at no output loading and operating at 50% duty cycle. C<sub>PD</sub> is related to I<sub>CCD</sub> dynamic operating current by the expression: I<sub>CCD</sub>=(C<sub>PD</sub>)(V<sub>CC</sub>)(f<sub>IN</sub>)+(I<sub>CCStatic</sub>).

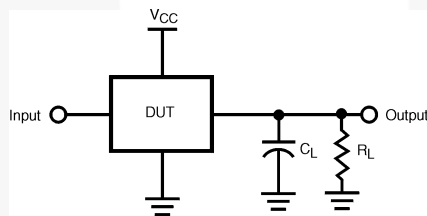


Figure 5. AC Test Circuit

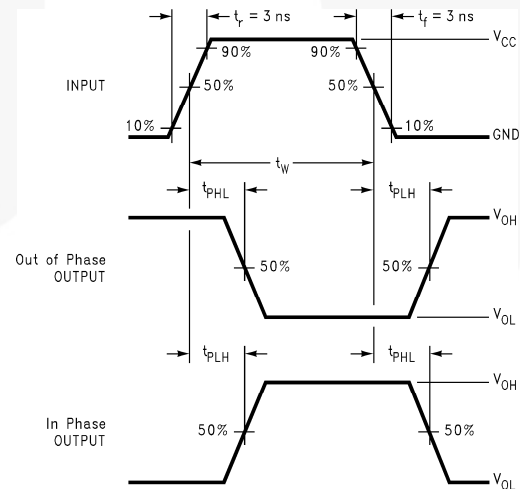
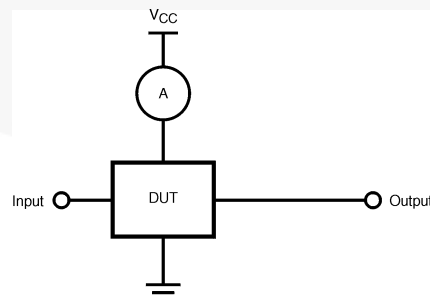


Figure 6. AC Waveforms

**Note:**

5. C<sub>L</sub> includes load and stray capacitance. Input PRR=1.0MHz, t<sub>w</sub>=500ns.

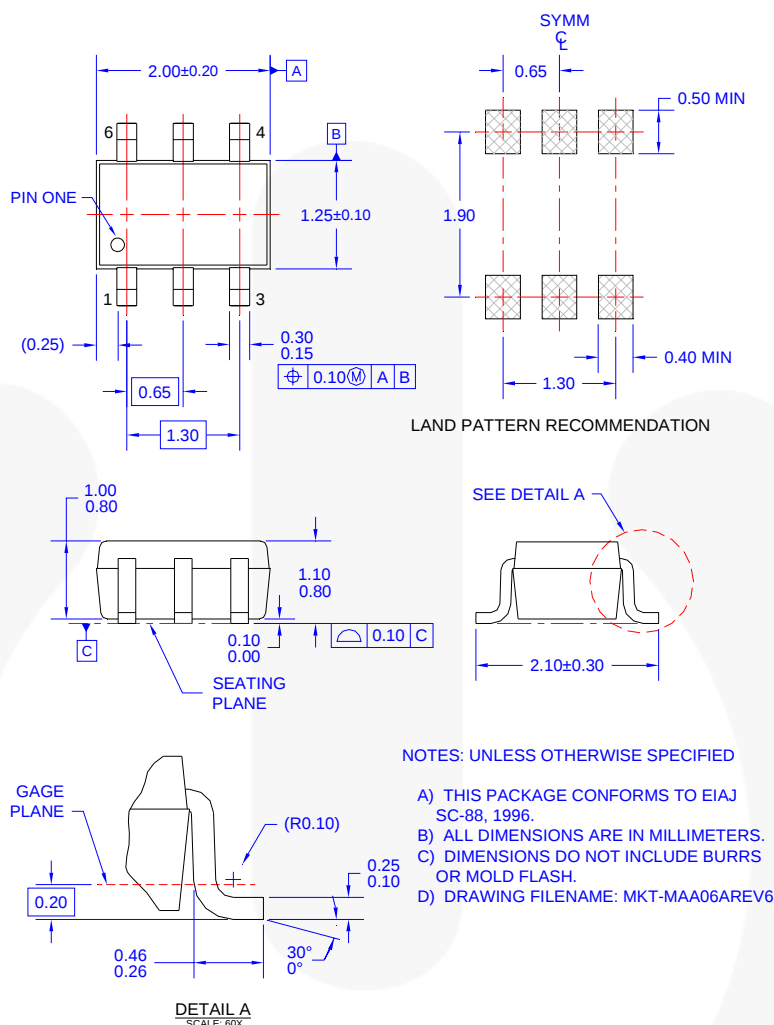


**Note:**

6. Input=AC Waveform; PRR=Variable; Duty Cycle=50%.

Figure 7. I<sub>CCD</sub> Test Circuit

## Physical Dimensions



**Figure 8. 6-Lead, SC70, EIAJ SC-88, 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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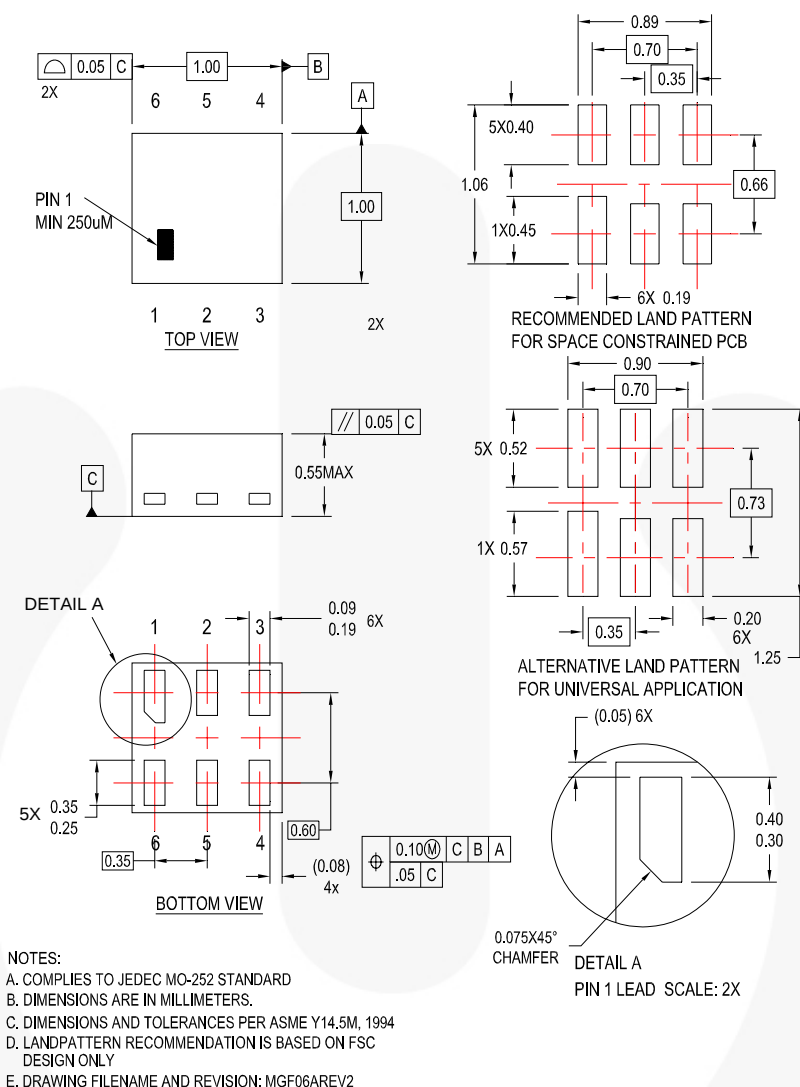
## Tape and Reel Specifications

Please visit Fairchild Semiconductor's online packaging area for the most recent tape and reel specifications:  
[http://www.fairchildsemi.com/products/analog/pdf/sc70-6\\_tr.pdf](http://www.fairchildsemi.com/products/analog/pdf/sc70-6_tr.pdf)

| Package Designator | Tape Section       | Cavity Number | Cavity Status | Cover Type Status |
|--------------------|--------------------|---------------|---------------|-------------------|
| P6X                | Leader (Start End) | 125 (Typical) | Empty         | Sealed            |
|                    | Carrier            | 3000          | Filled        | Sealed            |
|                    | Trailer (Hub End)  | 75 (Typical)  | Empty         | Sealed            |



## Physical Dimensions



**Figure 10. 6-Lead, MicroPak2, 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.

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## 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](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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SPM®  
STEALTH™  
SuperFET™  
SuperSOT™-3  
SuperSOT™-6  
SuperSOT™-8  
SupreMOS™  
SyncFET™  
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TinyCalc™  
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TINYOPTO™  
TinyPower™  
TinyPWM™  
TinyWire™  
TriFault Detect™  
TRUECURRENT™  
µSerDes™  
SerDes®  
UHC®  
Ultra FRFET™  
UniFET™  
VCX™  
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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. I43



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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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