



July 2002  
Revised May 2003

# NC7SV157

## TinyLogic® ULP-A 2-Input Non-Inverting Multiplexer

### General Description

The NC7SV157 is a single 2-Input Non-inverting Multiplexer 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 (0.9V to 3.6V V<sub>CC</sub>) and applications that require more drive and speed than the TinyLogic ULP series, but still offer best in class low power operation.

The NC7SV157 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.

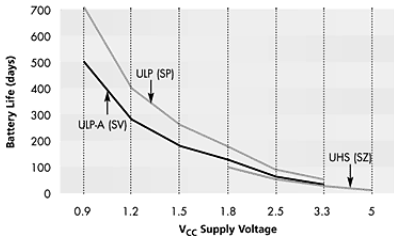
### Features

- 0.9V to 3.6V V<sub>CC</sub> supply operation
- 3.6V overvoltage tolerant I/O's at V<sub>CC</sub> from 0.9V to 3.6V
- Extremely High Speed t<sub>PD</sub>
  - 1.5 ns typ for 2.7V to 3.6V V<sub>CC</sub>
  - 2.0 ns typ for 2.3V to 2.7V V<sub>CC</sub>
  - 3.0 ns typ for 1.65V to 1.95V V<sub>CC</sub>
  - 4.0 ns typ for 1.4V to 1.6V V<sub>CC</sub>
  - 8.0 ns typ for 1.1V to 1.3V V<sub>CC</sub>
  - 16.0 ns typ for 0.9V V<sub>CC</sub>
- Power-Off high impedance inputs and outputs
- High Static Drive (I<sub>OH</sub>/I<sub>OL</sub>)
  - ±24 mA @ 3.00V V<sub>CC</sub>
  - ±18 mA @ 2.30V V<sub>CC</sub>
  - ±6 mA @ 1.65V V<sub>CC</sub>
  - ±4 mA @ 1.4V V<sub>CC</sub>
  - ±2 mA @ 1.1V V<sub>CC</sub>
  - ±0.1 mA @ 0.9V V<sub>CC</sub>
- Uses patented Quiet Series™ noise/EMI reduction circuitry
- Ultra small MicroPak™ leadfree package
- Ultra low dynamic power

### Ordering Code:

| Order Number | Package Number | Product Code Top Mark | Package Description                 | Supplied As               |
|--------------|----------------|-----------------------|-------------------------------------|---------------------------|
| NC7SV157P6X  | MAA06A         | VF7                   | 6-Lead SC70, EIAJ SC88, 1.25mm Wide | 3k Units on Tape and Reel |
| NC7SV157L6X  | MAC06A         | H9                    | 6-Lead MicroPak, 1.0mm Wide         | 5k Units on Tape and Reel |

### Battery Life vs. V<sub>CC</sub> Supply Voltage



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

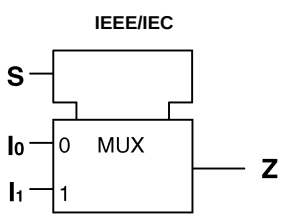
Battery Life = (V<sub>battery</sub> \* I<sub>battery</sub> \* 9) / (P<sub>device</sub>) / 24hrs/day

Where, P<sub>device</sub> = (I<sub>CC</sub> \* V<sub>CC</sub>) + (C<sub>PD</sub> + C<sub>L</sub>) \* V<sub>CC</sub><sup>2</sup> \* f

Assumes ideal 3.6V Lithium Ion battery with current rating of 900mAh and derated 90% and device frequency at 10MHz, with C<sub>L</sub> = 15 pF load

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Quiet Series™ and MicroPak™ are trademarks of Fairchild Semiconductor Corporation.

Logic Symbol



Pin Descriptions

| Pin Names                       | Description   |
|---------------------------------|---------------|
| I <sub>0</sub> , I <sub>1</sub> | Data Inputs   |
| S                               | Control Input |
| Z                               | Output        |

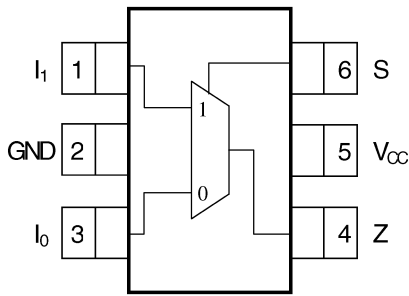
Function Table

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

H = HIGH Logic Level  
L = LOW Logic Level

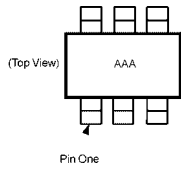
Connection Diagrams

Pin Assignments for SC70



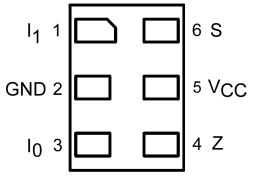
(Top View)

Pin One Orientation Diagram



AAA represents Product Code Top Mark - see ordering code.  
**Note:** Orientation of Top Mark determines Pin One location. Read the top product code mark left to right, Pin One is the lower left pin (see diagram).

Pad Assignments for MicroPak



(Top Thru View)

**Absolute Maximum Ratings**(Note 1)

|                                                   |                         |
|---------------------------------------------------|-------------------------|
| Supply Voltage ( $V_{CC}$ )                       | -0.5V to +4.6V          |
| DC Input Voltage ( $V_{IN}$ )                     | -0.5V to +4.6V          |
| DC Output Voltage ( $V_{OUT}$ )                   |                         |
| HIGH or LOW State (Note 2)                        | -0.5V to $V_{CC}$ +0.5V |
| $V_{CC} = 0V$                                     | -0.5V to +4.6V          |
| DC Input Diode Current ( $I_{IK}$ ) $V_{IN} < 0V$ | $\pm 50$ mA             |
| DC Output Diode Current ( $I_{OK}$ )              |                         |
| $V_{OUT} < 0V$                                    | -50 mA                  |
| $V_{OUT} > V_{CC}$                                | +50 mA                  |
| DC Output Source/Sink Current ( $I_{OH}/I_{OL}$ ) | $\pm 50$ mA             |
| DC $V_{CC}$ or Ground Current per                 |                         |
| Supply Pin ( $I_{CC}$ or Ground)                  | $\pm 50$ mA             |
| Storage Temperature Range ( $T_{STG}$ )           | -65°C to +150°C         |

**Recommended Operating Conditions** (Note 3)

|                                                 |                |
|-------------------------------------------------|----------------|
| Supply Voltage                                  | 0.9V to 3.6V   |
| Input Voltage ( $V_{IN}$ )                      | 0V to 3.6V     |
| Output Voltage ( $V_{OUT}$ )                    |                |
| $V_{CC} = 0.0V$                                 | 0V to 3.6V     |
| HIGH or LOW State                               | 0V to $V_{CC}$ |
| Output Current in $I_{OH}/I_{OL}$               |                |
| $V_{CC} = 3.0V$ to 3.6V                         | $\pm 24$ mA    |
| $V_{CC} = 2.3V$ to 2.7V                         | $\pm 18$ mA    |
| $V_{CC} = 1.65V$ to 1.95V                       | $\pm 6$ mA     |
| $V_{CC} = 1.4V$ to 1.6V                         | $\pm 4$ mA     |
| $V_{CC} = 1.1V$ to 1.3V                         | $\pm 2$ mA     |
| $V_{CC} = 0.9V$                                 | $\pm 0.1$ mA   |
| Free Air Operating Temperature ( $T_A$ )        | -40°C to +85°C |
| Minimum Input Edge Rate ( $\Delta t/\Delta V$ ) |                |
| $V_{IN} = 0.8V$ to 2.0V, $V_{CC} = 3.0V$        | 10 ns/V        |

**Note 1:** Absolute Maximum Ratings: are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the Electrical Characteristics tables are not guaranteed at the absolute maximum ratings. The "Recommended Operating Conditions" table will define the conditions for actual device operation.

**Note 2:**  $I_O$  Absolute Maximum Rating must be observed.

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

**DC Electrical Characteristics**

| Symbol                        | Parameter                    | V <sub>CC</sub><br>(V)        | T <sub>A</sub> = +25°C |     | T <sub>A</sub> = −40°C to +85°C |     | Units | Conditions                |
|-------------------------------|------------------------------|-------------------------------|------------------------|-----|---------------------------------|-----|-------|---------------------------|
|                               |                              |                               | Min                    | Max | Min                             | Max |       |                           |
| V <sub>IH</sub>               | HIGH Level<br>Input Voltage  | 0.90                          | 0.65 × V <sub>CC</sub> |     | 0.65 × V <sub>CC</sub>          |     | V     |                           |
|                               |                              | 1.10 ≤ V <sub>CC</sub> ≤ 1.30 | 0.65 × V <sub>CC</sub> |     | 0.65 × V <sub>CC</sub>          |     |       |                           |
|                               |                              | 1.40 ≤ V <sub>CC</sub> ≤ 1.60 | 0.65 × V <sub>CC</sub> |     | 0.65 × V <sub>CC</sub>          |     |       |                           |
|                               |                              | 1.65 ≤ V <sub>CC</sub> ≤ 1.95 | 0.65 × V <sub>CC</sub> |     | 0.65 × 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<br>Input Voltage   | 0.90                          | 0.35 × V <sub>CC</sub> |     | 0.35 × V <sub>CC</sub>          |     | V     |                           |
|                               |                              | 1.10 ≤ V <sub>CC</sub> ≤ 1.30 | 0.35 × V <sub>CC</sub> |     | 0.35 × V <sub>CC</sub>          |     |       |                           |
|                               |                              | 1.40 ≤ V <sub>CC</sub> ≤ 1.60 | 0.35 × V <sub>CC</sub> |     | 0.35 × V <sub>CC</sub>          |     |       |                           |
|                               |                              | 1.65 ≤ V <sub>CC</sub> ≤ 1.95 | 0.35 × V <sub>CC</sub> |     | 0.35 × 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<br>Output Voltage | 0.90                          | V <sub>CC</sub> − 0.1  |     | V <sub>CC</sub> − 0.1           |     | V     | I <sub>OH</sub> = −100 μA |
|                               |                              | 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 | 0.75 × V <sub>CC</sub> |     | 0.75 × V <sub>CC</sub>          |     |       | I <sub>OH</sub> = −2 mA   |
|                               |                              | 1.40 ≤ V <sub>CC</sub> ≤ 1.60 | 0.75 × V <sub>CC</sub> |     | 0.75 × V <sub>CC</sub>          |     |       | I <sub>OH</sub> = −4 mA   |
|                               |                              | 1.65 ≤ V <sub>CC</sub> ≤ 1.95 | 1.25                   |     | 1.25                            |     |       | I <sub>OH</sub> = −6 mA   |
|                               |                              | 2.30 ≤ V <sub>CC</sub> < 2.70 | 2.0                    |     | 2.0                             |     |       |                           |
|                               |                              | 2.30 ≤ V <sub>CC</sub> < 2.70 | 1.8                    |     | 1.8                             |     |       | I <sub>OH</sub> = −12 mA  |
|                               |                              | 2.70 ≤ V <sub>CC</sub> ≤ 3.60 | 2.2                    |     | 2.2                             |     |       |                           |
| 2.30 ≤ V <sub>CC</sub> < 2.70 | 1.7                          |                               | 1.7                    |     | I <sub>OH</sub> = −18 mA        |     |       |                           |
| 2.70 ≤ V <sub>CC</sub> ≤ 3.60 | 2.4                          |                               | 2.4                    |     |                                 |     |       |                           |
| 2.70 ≤ V <sub>CC</sub> ≤ 3.60 | 2.2                          |                               | 2.2                    |     | I <sub>OH</sub> = −24 mA        |     |       |                           |

## DC Electrical Characteristics (Continued)

| Symbol           | Parameter                   | V <sub>CC</sub><br>(V)        | T <sub>A</sub> = +25°C |     | T <sub>A</sub> = -40°C to +85°C |     | Units | Conditions                                    |
|------------------|-----------------------------|-------------------------------|------------------------|-----|---------------------------------|-----|-------|-----------------------------------------------|
|                  |                             |                               | Min                    | Max | Min                             | Max |       |                                               |
| V <sub>OL</sub>  | LOW Level<br>Output Voltage | 0.90                          |                        | 0.1 |                                 | 0.1 | V     | I <sub>OL</sub> = 100 μA                      |
|                  |                             | 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 | 0.25 x V <sub>CC</sub> |     | 0.25 x V <sub>CC</sub>          |     |       | I <sub>OL</sub> = 2 mA                        |
|                  |                             | 1.40 ≤ V <sub>CC</sub> ≤ 1.60 | 0.25 x V <sub>CC</sub> |     | 0.25 x V <sub>CC</sub>          |     |       | I <sub>OL</sub> = 4 mA                        |
|                  |                             | 1.65 ≤ V <sub>CC</sub> ≤ 1.95 | 0.3                    |     | 0.3                             |     |       | I <sub>OL</sub> = 6 mA                        |
|                  |                             | 2.30 ≤ V <sub>CC</sub> < 2.70 | 0.4                    |     | 0.4                             |     |       | I <sub>OL</sub> = 12 mA                       |
|                  |                             | 2.70 ≤ V <sub>CC</sub> ≤ 3.60 | 0.4                    |     | 0.4                             |     |       | I <sub>OL</sub> = 18 mA                       |
|                  |                             | 2.30 ≤ V <sub>CC</sub> < 2.70 | 0.6                    |     | 0.6                             |     |       | I <sub>OL</sub> = 24 mA                       |
|                  |                             | 2.70 ≤ V <sub>CC</sub> ≤ 3.60 | 0.4                    |     | 0.4                             |     |       | I <sub>OL</sub> = 24 mA                       |
|                  |                             | 2.70 ≤ V <sub>CC</sub> ≤ 3.60 | 0.55                   |     | 0.55                            |     |       | I <sub>OL</sub> = 24 mA                       |
| I <sub>IN</sub>  | Input Leakage Current       | 0.90 to 3.60                  | ±0.1                   |     | ±0.9                            |     | μA    | 0 ≤ V <sub>I</sub> ≤ 3.6V                     |
| I <sub>OFF</sub> | Power Off Leakage Current   | 0                             | 1                      |     | 5                               |     | μA    | 0 ≤ (V <sub>I</sub> , V <sub>O</sub> ) ≤ 3.6V |
| I <sub>CC</sub>  | Quiescent Supply Current    | 0.90 to 3.60                  | 0.9                    |     | 5                               |     | μA    | V <sub>I</sub> = V <sub>CC</sub> or GND       |
|                  |                             | 0.90 to 3.60                  |                        |     | ±5                              |     |       | V <sub>CC</sub> ≤ V <sub>I</sub> ≤ 3.6V       |

## AC Electrical Characteristics

| Symbol           | Parameter                        | V <sub>CC</sub><br>(V)        | T <sub>A</sub> = +25°C |     |      | T <sub>A</sub> = -40°C to +85°C |      | Units | Conditions                                           | Figure<br>Number |
|------------------|----------------------------------|-------------------------------|------------------------|-----|------|---------------------------------|------|-------|------------------------------------------------------|------------------|
|                  |                                  |                               | Min                    | Typ | Max  | Min                             | Max  |       |                                                      |                  |
| t <sub>PHL</sub> | Propagation Delay<br>S to Z      | 0.90                          | 16                     |     |      |                                 |      | ns    | C <sub>L</sub> = 15 pF, R <sub>L</sub> = 1 MΩ        | Figures<br>1, 2  |
| t <sub>PLH</sub> |                                  | 1.10 ≤ V <sub>CC</sub> ≤ 1.30 | 3.0                    | 8   | 15.5 | 2.2                             | 18.8 |       | C <sub>L</sub> = 15 pF, R <sub>L</sub> = 2 kΩ        |                  |
|                  |                                  | 1.40 ≤ V <sub>CC</sub> ≤ 1.60 | 2.0                    | 4   | 8.5  | 1.0                             | 9.5  |       | C <sub>L</sub> = 15 pF, R <sub>L</sub> = 2 kΩ        |                  |
|                  |                                  | 1.65 ≤ V <sub>CC</sub> ≤ 1.95 | 1.0                    | 3   | 6.7  | 1.2                             | 7.5  |       | C <sub>L</sub> = 30 pF, R <sub>L</sub> = 500Ω        |                  |
|                  |                                  | 2.30 ≤ V <sub>CC</sub> < 2.70 | 1.0                    | 2   | 4.1  | 0.8                             | 4.4  |       | C <sub>L</sub> = 30 pF, R <sub>L</sub> = 500Ω        |                  |
|                  |                                  | 2.70 ≤ V <sub>CC</sub> ≤ 3.60 | 0.8                    | 1.5 | 3.4  | 0.7                             | 3.6  |       | C <sub>L</sub> = 30 pF, R <sub>L</sub> = 500Ω        |                  |
| C <sub>IN</sub>  | Input Capacitance                | 0                             | 2.0                    |     |      |                                 |      | pF    |                                                      |                  |
| C <sub>OUT</sub> | Output Capacitance               | 0                             | 4.5                    |     |      |                                 |      | pF    |                                                      |                  |
| C <sub>PD</sub>  | Power Dissipation<br>Capacitance | 0.90 to 3.60                  | 10                     |     |      |                                 |      | pF    | V <sub>I</sub> = 0V or V <sub>CC</sub><br>f = 10 MHz |                  |

## AC Loading and Waveforms

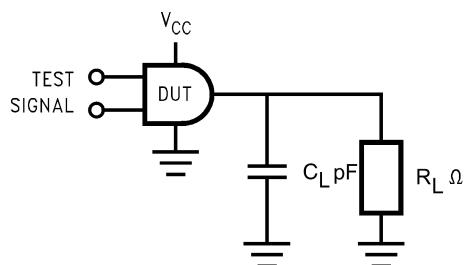


FIGURE 1. AC Test Circuit

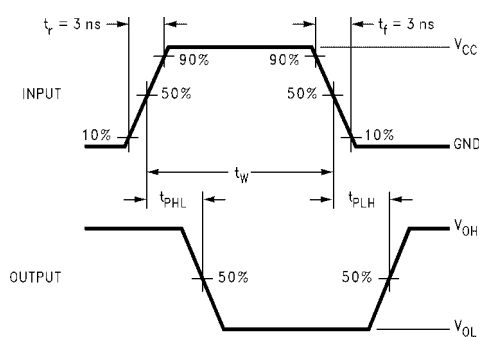


FIGURE 2. AC Waveforms

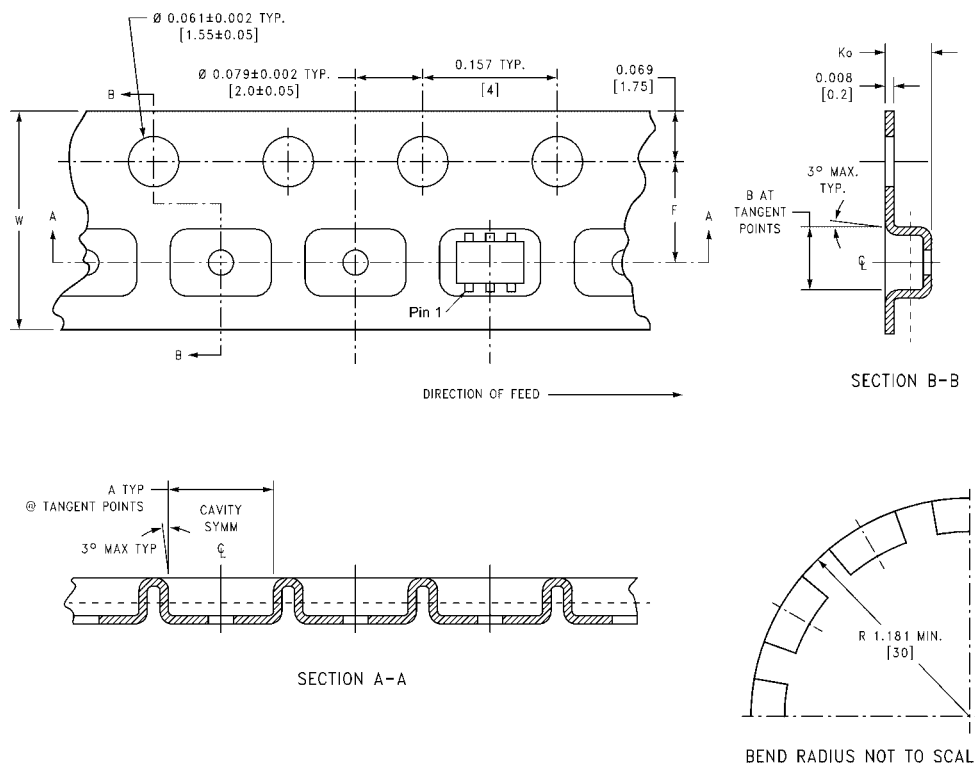
| Symbol          | V <sub>CC</sub> |                    |                    |                    |                    |                    |
|-----------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                 | 3.3V ± 0.3V     | 2.5V ± 0.2V        | 1.8V ± 0.15V       | 1.5V ± 0.10V       | 1.2V ± 0.10V       | 0.9V               |
| V <sub>mi</sub> | 1.5V            | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 |
| V <sub>mo</sub> | 1.5V            | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 | V <sub>CC</sub> /2 |

## Tape and Reel Specification

### TAPE FORMAT for SC70

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

### TAPE DIMENSIONS inches (millimeters)



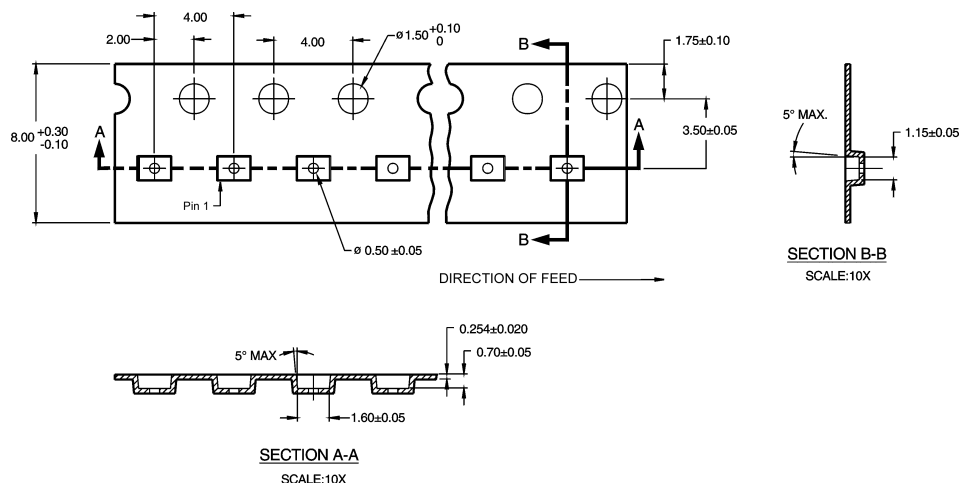
| Package | Tape Size | DIM A           | DIM B           | DIM F                                   | DIM $K_0$                                | DIM P1       | DIM W                                |
|---------|-----------|-----------------|-----------------|-----------------------------------------|------------------------------------------|--------------|--------------------------------------|
| SC70-6  | 8 mm      | 0.093<br>(2.35) | 0.096<br>(2.45) | $0.138 \pm 0.004$<br>( $3.5 \pm 0.10$ ) | $0.053 \pm 0.004$<br>( $1.35 \pm 0.10$ ) | 0.157<br>(4) | $0.315 \pm 0.004$<br>( $8 \pm 0.1$ ) |

# Tape and Reel Specification (Continued)

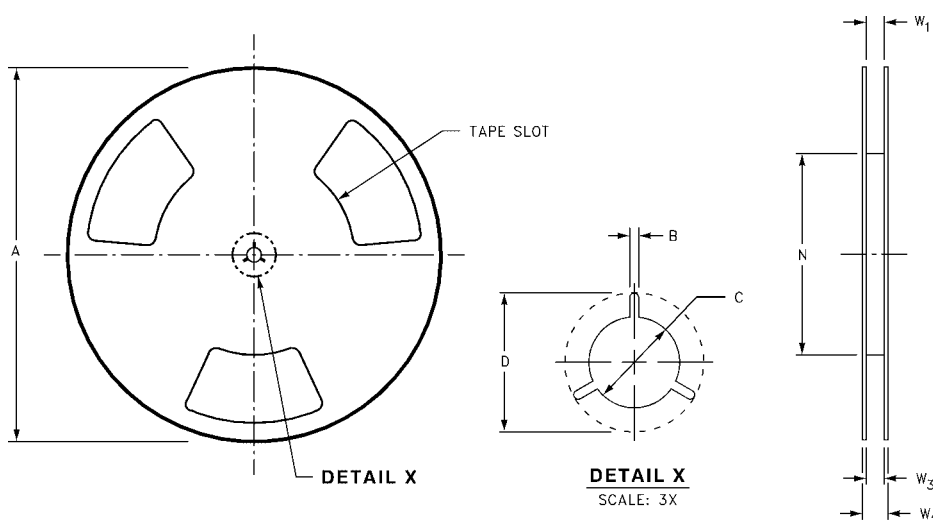
## TAPE FORMAT for MicroPak

| Package Designator | Tape Section       | Number Cavities | Cavity Status | Cover Tape Status |
|--------------------|--------------------|-----------------|---------------|-------------------|
| L6X                | Leader (Start End) | 125 (typ)       | Empty         | Sealed            |
|                    | Carrier            | 5000            | Filled        | Sealed            |
|                    | Trailer (Hub End)  | 75 (typ)        | Empty         | Sealed            |

## TAPE DIMENSIONS inches (millimeters)

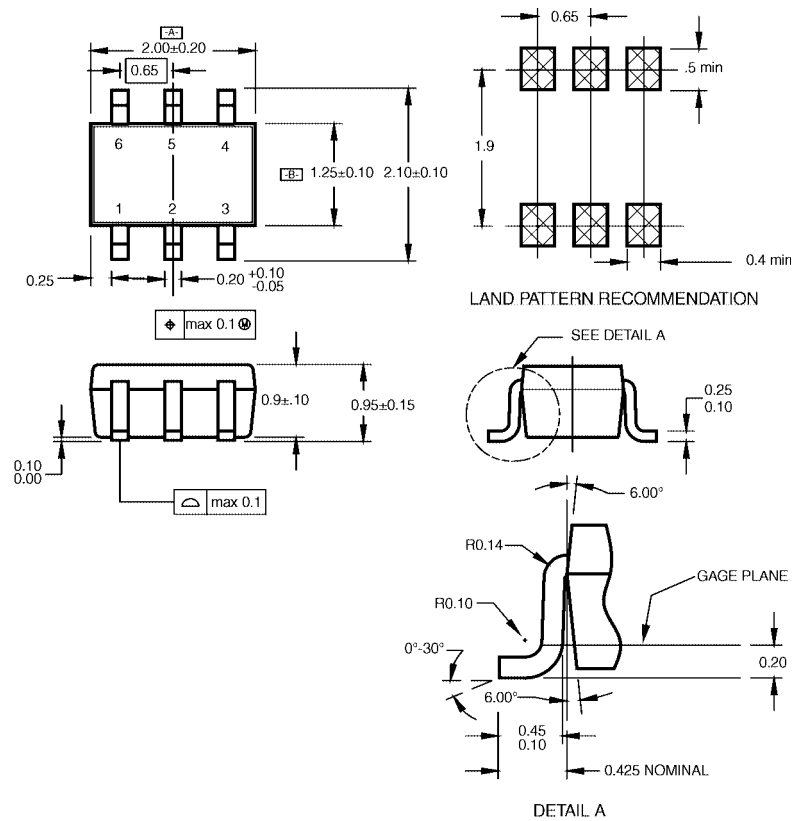


## REEL DIMENSIONS inches (millimeters)



| Tape Size | A              | B               | C                | D                | N                | W1                                          | W2               | W3                                     |
|-----------|----------------|-----------------|------------------|------------------|------------------|---------------------------------------------|------------------|----------------------------------------|
| 8 mm      | 7.0<br>(177.8) | 0.059<br>(1.50) | 0.512<br>(13.00) | 0.795<br>(20.20) | 2.165<br>(55.00) | 0.331 + 0.059/-0.000<br>(8.40 + 1.50/-0.00) | 0.567<br>(14.40) | W1 + 0.078/-0.039<br>(W1 + 2.00/-1.00) |

# Physical Dimensions inches (millimeters) unless otherwise noted



## NOTES:

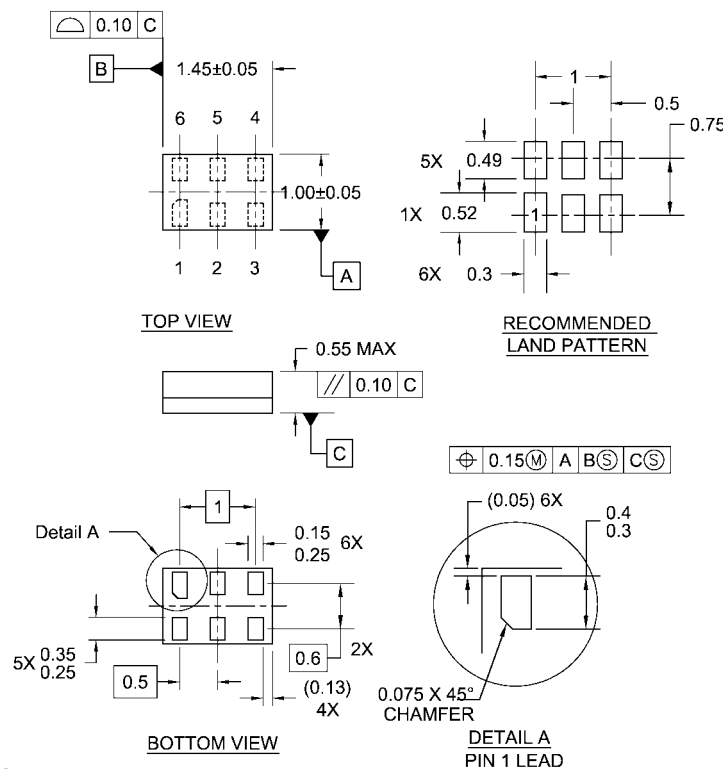
- A. CONFORMS TO EIAJ REGISTERED OUTLINE DRAWING SC88.
- B. DIMENSIONS DO NOT INCLUDE BURRS OR MOLD FLASH.
- C. DIMENSIONS ARE IN MILLIMETERS.

MAA06ARevC

**6-Lead SC70, EIAJ SC88, 1.25mm Wide**  
**Package Number MAA06A**



**Physical Dimensions** inches (millimeters) unless otherwise noted (Continued)



**Notes:**

1. JEDEC PACKAGE REGISTRATION IS ANTICIPATED
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y14.5M-1994

MAC06ARevB

**6-Lead MicroPak, 1.0mm Wide  
Package Number MAC06A**

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**LIFE SUPPORT POLICY**

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