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NC7WV07

TinyLogic® ULP-A Dual Buffer (Open-Drain Output)

Features

- 0.9V to 3.6V V_{CC} Supply Operation
- 3.6V Over-Voltage Tolerant I/Os at V_{CC} from 0.9V to 3.6V
- Extremely High Speed t_{PD}
 - 1.0ns: Typical for 2.7V to 3.6V V_{CC}
 - 1.2ns: Typical for 2.3V to 2.7V V_{CC}
 - 2.0ns: Typical for 1.65V to 1.95V V_{CC}
 - 3.2ns: Typical for 1.4V to 1.6V V_{CC}
 - 6.0ns: Typical for 1.1V to 1.3V V_{CC}
 - 13.0ns: Typical for 0.9V V_{CC}
- Power-Off High-Impedance Inputs and Outputs
- High Static Drive (I_{OH}/I_{OL})
 - $\pm 24mA$ at 3.00V V_{CC}
 - $\pm 18mA$ at 2.30V V_{CC}
 - $\pm 6mA$ at 1.65V V_{CC}
 - $\pm 4mA$ at 1.4V V_{CC}
 - $\pm 2mA$ at 1.1V V_{CC}
 - $\pm 0.1mA$ at 0.9V V_{CC}
- Uses Proprietary Quiet Series™ Noise/EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Ultra-Low Dynamic Power

Description

The NC7WV07 is a dual buffer with open drain output from Fairchild's Ultra Low Power-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_{CC}) and applications that require more drive and speed than the TinyLogic ULP series, but still offer best in class low power operation.

The NC7WV07 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 |
|-------------|----------|---------------------------------------|---------------------------|
| NC7WV07P6X | V07 | 6-Lead SC70, EIAJ SC-88a, 1.25mm Wide | 3000 Units on Tape & Reel |
| NC7WV07L6X | BC | 6-Lead MicroPak™, 1.00mm Wide | 5000 Units on Tape & Reel |

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Battery Life

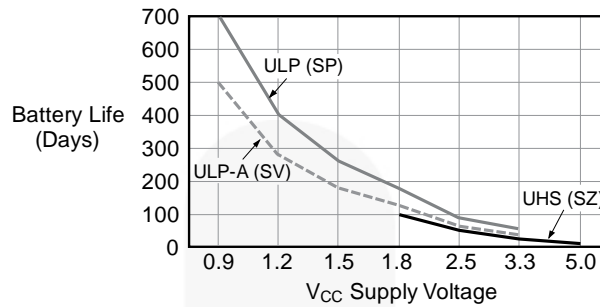


Figure 1. Battery Life vs. V_{CC} Supply Voltage

Notes:

1. TinyLogic® ULP and ULP-A with up to 50% less power consumption can extend 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 3.6V Lithium Ion battery with current rating of 900mAH and derated 90% and device frequency at 10MHz, with C_L=15pF load.

Pin Configurations

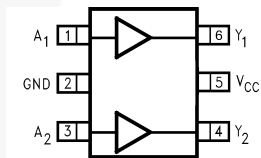


Figure 2. SC70 (Top View)

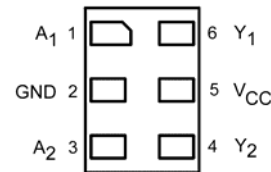


Figure 3. MicroPak (Top Through View)

Pin Definitions

| Pin # SC70 | Pin # MicroPak | Name | Description |
|------------|----------------|-----------------|----------------|
| 1 | 1 | A ₁ | Data Inputs |
| 2 | 2 | GND | Ground |
| 3 | 3 | A ₂ | Data Inputs |
| 4 | 4 | Y ₂ | Output |
| 5 | 5 | V _{CC} | Supply Voltage |
| 6 | 6 | Y ₁ | Output |

Function Table

| Inputs | Output |
|--------|--------|
| A | Y |
| L | L |
| H | *H |

H=HIGH Logic Level

L=LOW Logic Level

*H=HIGH Impedance Output Status (Open Drain)

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 | | -0.5 | 4.6 | V |
| I_{IK} | DC Input Diode Current | $V_{IN} < 0V$ | | -50 | mA |
| I_{OK} | DC Output Diode Current | $V_{OUT} < 0V$ | | -50 | mA |
| 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 10 Seconds | | | +260 | °C |
| P_D | Power Dissipation at +85°C | SC70-5 | | 150 | mW |
| | | MicroPak-6 | | 130 | |
| | | MicroPak2-6 | | 120 | |
| ESD | Human Body Model, JEDEC:JESD22-A114 | | | 4000 | V |
| | 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 | | 0.9 | 3.6 | V |
| V_{IN} | Input Voltage | | 0 | 3.6 | V |
| V_{OUT} | Output Voltage | | 0 | 3.6 | V |
| I_{OL} | Output Current in I_{OL} | $V_{CC}=3.0V$ to $3.6V$ | | +24.0 | mA |
| | | $V_{CC}=2.3V$ to $3.6V$ | | +18.0 | |
| | | $V_{CC}=1.65V$ to $1.95V$ | | +6.0 | |
| | | $V_{CC}=1.4V$ to $1.6V$ | | +4.0 | |
| | | $V_{CC}=1.1V$ to $1.3V$ | | +2.0 | |
| | | $V_{CC}=0.9V$ | | +0.1 | |
| T_A | Operating Temperature, Free Air | | -40 | +85 | °C |
| $\Delta t/\Delta V$ | Minimum Input Edge Rate | $V_{IN}=0.8V$ to 2.0 , $V_{CC}=3.0V$ | | 10 | ns/V |
| θ_{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 _{CC} | Conditions | T _A =25°C | | T _A =-40 to 85°C | | Units |
|------------------|---------------------------|-------------------------------|--|-----------------------|------------------------|-----------------------------|------------------------|-------|
| | | | | Min. | Max. | Min. | Max. | |
| V _{IH} | HIGH Level Input Voltage | 0.90 | | .65 x V _{CC} | | .65 x V _{CC} | | V |
| | | 1.10 ≤ V _{CC} ≤ 1.30 | | .65 x V _{CC} | | .65 x V _{CC} | | |
| | | 1.40 ≤ V _{CC} ≤ 1.60 | | .65 x V _{CC} | | .65 x V _{CC} | | |
| | | 1.65 ≤ V _{CC} ≤ 1.95 | | .65 x V _{CC} | | .65 x V _{CC} | | |
| | | 2.30 ≤ V _{CC} ≤ 2.70 | | 1.6 | | 1.6 | | |
| | | 2.70 ≤ V _{CC} ≤ 3.60 | | 2.0 | | 2.0 | | |
| V _{IL} | LOW Level Input Voltage | 0.90 | | | .35 x V _{CC} | | .35 x V _{CC} | V |
| | | 1.10 ≤ V _{CC} ≤ 1.30 | | | .35 x V _{CC} | | .35 x V _{CC} | |
| | | 1.40 ≤ V _{CC} ≤ 1.60 | | | .35 x V _{CC} | | .35 x V _{CC} | |
| | | 1.65 ≤ V _{CC} ≤ 1.95 | | | .35 x V _{CC} | | .35 x V _{CC} | |
| | | 2.30 ≤ V _{CC} ≤ 2.70 | | | 0.7 | | 0.7 | |
| | | 2.70 ≤ V _{CC} ≤ 3.60 | | | 0.8 | | 0.8 | |
| V _{OL} | LOW Level Output Voltage | 0.90 | I _{OL} =100μA | | 0.1 | | 0.1 | V |
| | | 1.10 ≤ V _{CC} ≤ 1.30 | | | 0.1 | | 0.1 | |
| | | 1.40 ≤ V _{CC} ≤ 1.60 | | | 0.2 | | 0.2 | |
| | | 1.65 ≤ V _{CC} ≤ 1.95 | | | 0.2 | | 0.2 | |
| | | 2.30 ≤ V _{CC} ≤ 2.70 | | | 0.2 | | 0.2 | |
| | | 2.70 ≤ V _{CC} ≤ 3.60 | | | 0.2 | | 0.2 | |
| | | 1.10 ≤ V _{CC} ≤ 1.30 | I _{OL} =2mA | | 0.25 x V _{CC} | | 0.25 x V _{CC} | |
| | | 1.40 ≤ V _{CC} ≤ 1.60 | I _{OL} =4mA | | 0.25 x V _{CC} | | 0.25 x V _{CC} | |
| | | 1.65 ≤ V _{CC} ≤ 1.95 | I _{OL} =6mA | | 0.3 | | 0.3 | |
| | | 2.30 ≤ V _{CC} ≤ 2.70 | I _{OL} =12mA | | 0.4 | | 0.4 | |
| | | 2.70 ≤ V _{CC} ≤ 3.60 | | | 0.4 | | 0.4 | |
| | | 2.30 ≤ V _{CC} ≤ 2.70 | I _{OL} =18mA | | 0.6 | | 0.6 | |
| | | 2.70 ≤ V _{CC} ≤ 3.60 | | | 0.4 | | 0.4 | |
| | | 2.70 ≤ V _{CC} ≤ 3.60 | I _{OL} =24mA | | 0.55 | | 0.55 | |
| I _{IN} | Input Leakage Current | 0.90 to 3.60 | 0 ≤ V _{IN} ≤ 3.60 | | ±0.1 | | ±0.5 | μA |
| I _{OFF} | Power Off Leakage Current | 0 | 0 ≤ (V _{IN} , V _O) ≤ 3.60 | | 0.5 | | 0.5 | μA |
| I _{CC} | Quiescent Supply Current | 0.90 to 3.60 | V _{IN} =V _{CC} , or GND | | 0.9 | | 0.9 | μA |
| | | | V _{CC} ≤ V _{IN} ≤ 3.6V | | | | ±0.9 | |

AC Electrical Characteristics

| Symbol | Parameter | V _{CC} | Conditions | T _A =25°C | | | T _A =-40 to 85°C | | Units | Figure |
|-------------------------------------|-------------------------------|-------------------------------|---|----------------------|------|------|-----------------------------|------|-------|----------------------|
| | | | | Min. | Typ. | Max. | Min. | Max. | | |
| t _{PZL} , t _{PLZ} | Propagation Delay | 0.90 | C _L =15pF, R _U =R _D =1MΩ | | 13 | | | | ns | Figure 4 Figure 5 |
| | | 1.10 ≤ V _{CC} ≤ 1.30 | C _L =15pF, R _U =R _D =2kΩ | 2.0 | 6.0 | 15.0 | 1.0 | 18.6 | | |
| | | 1.40 ≤ V _{CC} ≤ 1.60 | | 1.0 | 3.2 | 8.7 | 1.0 | 9.7 | | |
| | | 1.65 ≤ V _{CC} ≤ 1.95 | | 1.0 | 2.0 | 6.0 | 1.0 | 6.8 | | |
| | | 2.30 ≤ V _{CC} ≤ 2.70 | C _L =30pF, R _U =R _D =500Ω | 0.7 | 1.2 | 3.6 | 0.6 | 4.7 | | |
| | | 2.70 ≤ V _{CC} ≤ 3.60 | | 0.5 | 1.0 | 3.3 | 0.4 | 4.0 | | |
| C _{IN} | Input Capacitance | 0 | | | 2 | | | | pF | |
| C _{OUT} | Output Capacitance | 0 | | | 6.5 | | | | | |
| C _{PD} | Power Dissipation Capacitance | 0.90 to 3.60 | V _{IN} =0V or V _{CC} , f=10MHz | | 10 | | | | pF | |

AC Loadings and Waveforms

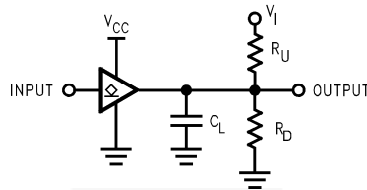


Figure 4. AC Test Circuit

| Test | Switch |
|-------------------------------------|---|
| t _{PZL} , t _{PLZ} | 6V at V _{CC} =3.3±0.3V; V _{CC} x 2 at V _{CC} =0.9-2.7V |

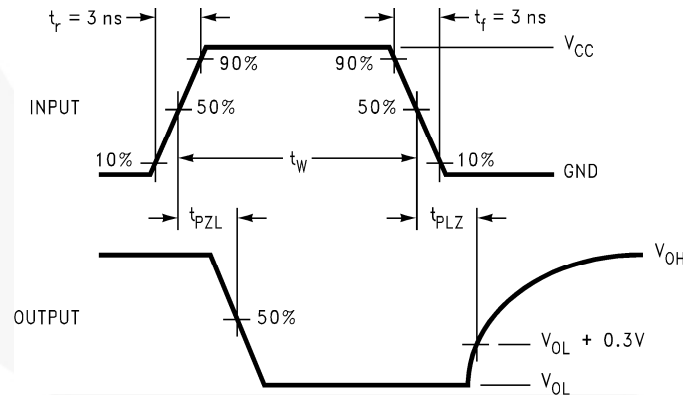


Figure 5. AC Waveforms for Inverting and Non-Inverting Functions

| Symbol | V _{CC} | | | | | |
|-----------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | 3.3V ± 0.3V | 2.5V ± 0.2V | 1.8V ± 0.15V | 1.5V ± 0.1V | 1.2V ± 0.1V | 0.9V |
| V _{mi} | 1.5V | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 | V _{CC} /2 |
| V _{mo} | V _{OL} + 0.30V | V _{OL} + 0.15V | V _{OL} + 0.15V | V _{OL} + 0.10V | V _{OL} + 0.10V | V _{OL} + 0.10V |

Physical Dimensions

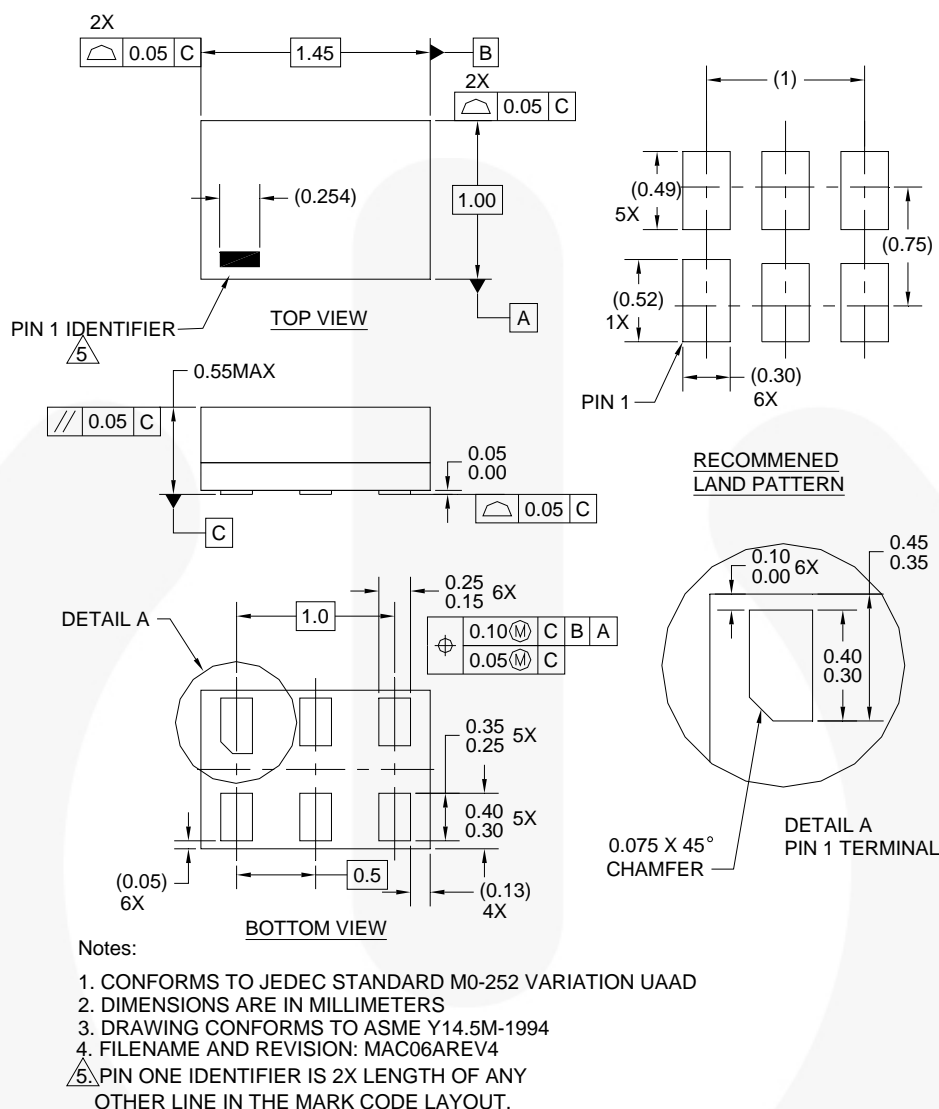


Figure 7. 6-Lead, MicroPak™, 1.0mm Wide

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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 |




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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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