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TinyLogic ULP-A Dual Inverter

NC7WV04

The NC7WV04 is a dual inverter in tiny footprint packages. The device is designed to operate for $V_{\rm CC}$ = 0.9 V to 3.6 V.

Features

- Designed for 0.9 V to 3.6 V V_{CC} Operation
- 1.6 ns t_{PD} at 3.3 V (Typ)
- Inputs/Outputs Over-Voltage Tolerant up to 3.6 V
- I_{OFF} Supports Partial Power Down Protection
- Source/Sink 24 mA at 3.3 V
- Available in SC-88A and MicroPakTM Packages
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

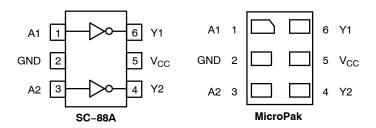


Figure 1. Pinout Diagrams (Top Views)

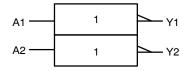


Figure 2. Logic Symbol

PIN ASSIGNMENT

Pin	Function
1	A1
2	GND
3	A2
4	Y2
5	V _{CC}
6	Y1



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MARKING DIAGRAMS



SIP6 1.45X1.0 MicroPak CASE 127EB



CC = Specific Device Code

KK = 2-Digit Lot Run Traceability Code

XY = 2-Digit Date Code Z = Assembly Plant Code



SC-88 DF SUFFIX CASE 419B-02



XXX = Specific Devic Code

M = Date Code*

Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation and/or position may vary depending upon manufacturing location.

ORDERING INFORMATION

See detailed ordering, marking and shipping information on page 6 of this data sheet.

FUNCTION TABLE

1

A Input	Y Output
L	Н
Н	L

MAXIMUM RATINGS

Symbol	Characteristics		Value	Unit
V _{CC}	DC Supply Voltage		-0.5 to +4.3	V
V _{IN}	DC Input Voltage		-0.5 to +4.3	V
V _{OUT}		-Mode (High or Low State) Tri-State Mode (Note 1) er-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +4.3 -0.5 to +4.3	V
I _{IK}	DC Input Diode Current	V _{IN} < GND	–50	mA
l _{ok}	DC Output Diode Current	V _{OUT} < GND	-50	mA
lout	DC Output Source/Sink Current		±50	mA
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Ground Pin		±50	mA
T _{STG}	Storage Temperature Range		-65 to +150	°C
T _L	Lead Temperature, 1 mm from Case for 10 Seconds		260	°C
TJ	Junction Temperature Under Bias		+150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 2)	SC-88A MicroPak	377 154	°C/W
P _D	Power Dissipation in Still Air	SC-88A MicroPak	332 812	mW
MSL	Moisture Sensitivity		Level 1	-
F _R	Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
V _{ESD}	ESD Withstand Voltage (Note 3)	Human Body Model Charged Device Model	2000 1000	V
I _{Latchup}	Latchup Performance (Note 4)		±100	mA

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality

- stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

 1. Applicable to devices with outputs that may be tri-stated.

 2. Measured with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 2 ounce copper trace no air flow per JESD51-7.

 3. HBM tested to EIA / JESD22-A114-A. CDM tested to JESD22-C101-A. JEDEC recommends that ESD qualification to EIA/JESD22-A115A (Machine Model) be discontinued.

 4. Tested to EIA/JESD78 Class II.

RECOMMENDED OPERATING CONDITIONS

Symbol	Paran	neter	Min	Max	Unit
V _{CC}	Positive DC Supply Voltage		0.9	3.6	V
V _{IN}	DC Input Voltage		0	3.6	V
V _{OUT}	DC Output Voltage	Active–Mode (High or Low State) Tri–State Mode (Note 1) Power–Down Mode (V_{CC} = 0 V)	0 0 0	V _{CC} 3.6 3.6	
T _A	Operating Temperature Range		-40	+85	°C
t _r , t _f	Input Transition Rise and Fall Time	V_{CC} = 3.3 V \pm 0.3 V	0	10	ns/V

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

DC ELECTRICAL CHARACTERISTICS

				T _A = 25°C			$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		
Symbol	Parameter	Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Unit
V _{IH}	High-Level Input		0.9	_	0.5	-	_	-	V
	Voltage		1.1 to 1.3	0.65 x V _{CC}	-	-	0.65 x V _{CC}	-	
			1.4 to 1.6	0.65 x V _{CC}	-	-	0.65 x V _{CC}	-	
			1.65 to 1.95	0.65 x V _{CC}	-	-	0.65 x V _{CC}	-	
			2.3 to <2.7	1.6	-	-	1.6	-	
			2.7 to 3.6	2.0	-	-	2.0	-	
V _{IL}	Low-Level Input		0.9	-	0.5	-	-	-	V
	Voltage		1.1 to 1.3	-	-	0.35 x V _{CC}	-	0.35 x V _{CC}	
			1.4 to 1.6	-	-	0.35 x V _{CC}	-	0.35 x V _{CC}	
			1.65 to 1.95	_	-	0.35 x V _{CC}	-	0.35 x V _{CC}	
			2.3 to <2.7	_	-	0.7	-	0.7	
			2.7 to 3.6	_	-	0.8	-	0.8	
V _{OH}	High-Level Output Voltage	$V_{IN} = V_{IH}$ or V_{IL}							V
		I _{OH} = -100 μA	0.9	_	V _{CC} – 0.1	_	-	-	
		1.4 1.65	1.1 to 1.3	V _{CC} - 0.1	-	-	V _{CC} - 0.1	-	
			1.4 to 1.6	V _{CC} - 0.1	-	-	V _{CC} - 0.1	-	
			1.65 to 1.95	V _{CC} – 0.2	-	-	V _{CC} - 0.2	-	
			2.3 to <2.7	V _{CC} – 0.2	_	-	V _{CC} – 0.2	-	
			2.7 to 3.6	V _{CC} – 0.2	-	-	V _{CC} - 0.2	-	
		$I_{OH} = -2 \text{ mA}$	1.1 o 1.3	0.75 x V _{CC}	_	-	0.75 x V _{CC}	-	
		$I_{OH} = -4 \text{ mA}$	1.4 to 1.6	0.75 x V _{CC}	_	-	0.75 x V _{CC}	-	
		I _{OH} = -6 mA	1.65 to 1.95	1.25	_	-	1.25	-	
			2.3 to <2.7	2.0	_	-	2.0	-	
		I _{OH} = -12 mA	2.3 to <2.7	1.8	-	-	1.8	-	
			2.7 to 3.6	2.2	_	-	2.2	-	
		I _{OH} = -18 mA	2.3 to <2.7	1.7	-	-	1.7	-	
			2.7 to 3.6	2.4	-	-	2.4	-	
		I _{OH} = -24 mA	2.7 to 3.6	2.2	_	-	2.2	_	

DC ELECTRICAL CHARACTERISTICS (continued)

					T _A = 25°C			$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$	
Symbol	Parameter	Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Unit
V _{OL}	Low-Level	$V_{IN} = V_{IH}$ or V_{IL}							٧
	Output Voltage	I _{OL} = 100 μA	0.9	-	0.1	-	_	-	
			1.1 to 1.3	-	-	0.1	_	0.1	
			1.4 to 1.6	-	-	0.1	-	0.1	
			1.65 to 1.95	-	-	0.2	_	0.2	
			2.3 to < 2.7	-	-	0.2	-	0.2	
			2.7 to 3.6	-	-	0.2	-	0.2	
		I _{OL} = 2 mA	1.1 o 1.3	-	_	0.25 x V _{CC}	1	0.25 x V _{CC}	
		I _{OL} = 4 mA	1.4 to 1.6	-	-	0.25 x V _{CC}	-	0.25 x V _{CC}	
		I _{OL} = 6 mA	1.65 to 1.95	-	_	0.3	1	0.3	
		I _{OL} = 12 mA	2.3 to <2.7	-	-	0.4	-	0.4	
			2.7 to 3.6	ı	-	0.4	ı	0.4	
		I _{OL} = 18 mA	2.3 to <2.7	ı	-	0.6	ı	0.6	
			2.7 to 3.6	-	-	0.4	-	0.4	
		I _{OL} = 24 mA	2.7 to 3.6	ı	-	0.55	ı	0.55	
I _{IN}	Input Leakage Current	V _{IN} = 0 V to 3.6 V	0.9 to 3.6	-	-	±0.1	-	±0.5	μΑ
l _{OFF}	Power Off Leakage Current	V _{IN} = 0 V to 3.6 V or V _{OUT} = 0 V to 3.6 V	0	_	-	0.5	_	0.5	μΑ
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	0.9 to 3.6	-	_	0.9	1	0.9	μΑ

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

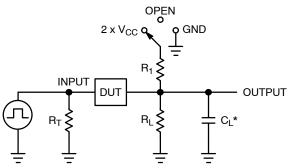
AC ELECTRICAL CHARACTERISTICS

				T _A = 25°C		T _A = -40°C			
Symbol	Parameter	Condition	V _{CC} (V)	Min	Тур	Max	Min	Max	Unit
t _{PLH} ,	t _{PLH} , t _{PHL} Propagation Delay, A to Y (Figures 3 and 4)	$R_L = 1 \text{ M}\Omega$, $C_L = 15 \text{ pF}$	0.9	_	17.4	_	-	-	ns
t _{PHL}		$R_L = 2 \text{ k}\Omega$, $C_L = 15 \text{ pF}$	1.1 to 1.3	_	4.5	12.1	-	14.9	
			1.4 to 1.6	-	2.9	5.4	-	6.0	
		$R_L = 500 \ \Omega, \ C_L = 30 \ pF$	1.65 to 1.95	-	2.5	4.6	-	5.2	
			2.3 to 2.7	-	1.9	3.6	-	3.8	
			2.7 to 3.6	-	1.6	3.0	-	3.3	

CAPACITIVE CHARACTERISTICS

Symbol	Parameter	Test Condition	Typical (T _A = 25°C)	Unit
C _{IN}	Input Capacitance	V _{CC} = 0 V	2.0	pF
C _{OUT}	Output Capacitance	V _{CC} = 0 V	4.5	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	f = 10 MHz, V_{CC} = 0.9 to 3.6 V, V_{IN} = 0 V or V_{CC}	10.0	pF

^{5.} C_{PD} is defined as the value of the internal equivalent capacitance which is calculated from the operating current consumption without load. Average operating current can be obtained by the equation I_{CC(OPR)} = C_{PD} • V_{CC} • f_{in} + I_{CC}. C_{PD} is used to determine the no–load dynamic power consumption: P_D = C_{PD} • V_{CC}² • f_{in} + I_{CC} • V_{CC}.

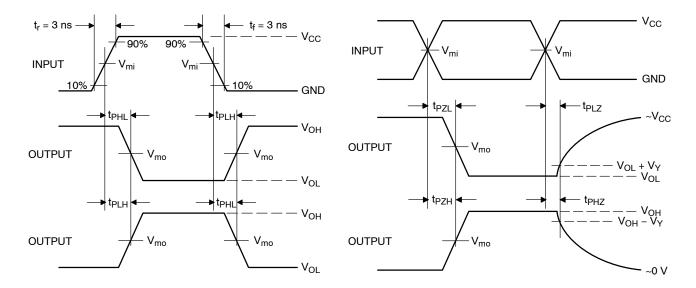


Test	Switch Position
t _{PLH} / t _{PHL}	Open
t _{PLZ} / t _{PZL}	2 x V _{CC}
t _{PHZ} / t _{PZH}	GND

C_L includes probe and jig capacitance

 R_T is Z_{OUT} of pulse generator (typically 50 Ω) f=1 MHz

Figure 3. Test Circuit



V _{CC} , V	V _{mi} , V	V _{mo} , V	V _Y , V
0.9	V _{CC} /2	V _{CC} /2	0.1
1.1 to 1.3	V _{CC} /2	V _{CC} /2	0.1
1.4 to 1.6	V _{CC} / 2	V _{CC} / 2	0.1
1.65 to 1.95	V _{CC} / 2	V _{CC} / 2	0.15
2.3 to 2.7	V _{CC} / 2	V _{CC} / 2	0.15
3.0 to 3.6	1.5	1.5	0.3

Figure 4. Switching Waveforms

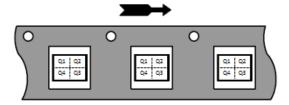
ORDERING INFORMATION

Device	Package	Marking	Pin 1 Orientation (See below)	Shipping [†]
NC7WV04P6X	SC-88	V04	Q4	3000 / Tape & Reel
NC7WV04L6X	MicroPak	BA	Q4	5000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

Pin 1 Orientation in Tape and Reel

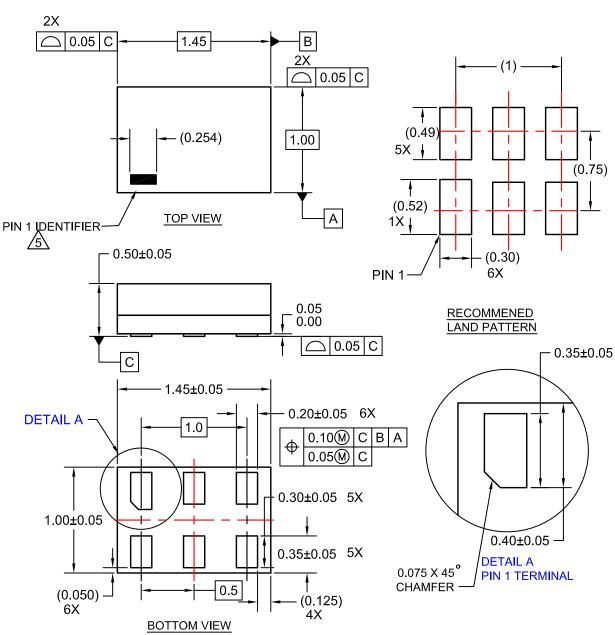
Direction of Feed



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PACKAGE DIMENSIONS

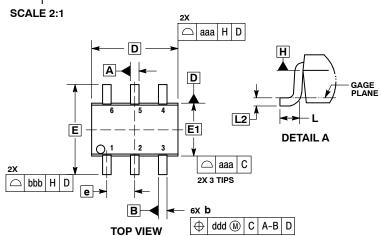
SIP6 1.45X1.0 CASE 127EB ISSUE O

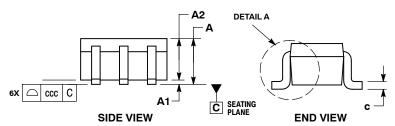


- NOTES:
- 1, CONFORMS TO JEDEC STANDARD MO-252 VARIATION UAAD
- 2. DIMENSIONS ARE IN MILLIMETERS
- 3. DRAWING CONFORMS TO ASME Y14.5M-2009
- 4.PIN ONE IDENTIFIER IS 2X LENGTH OF ANY
 - OTHER LINE IN THE MARK CODE LAYOUT.

SC-88/SC70-6/SOT-363 CASE 419B-02 **ISSUE Y**

DATE 11 DEC 2012





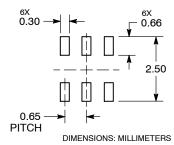
NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS
- CONTROLLING DIMENSION: MILLIMETERS.
 DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH,
- DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.20 PER END. DIMENSIONS D AND E1 AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY AND DATUM H. DATUMS A AND B ARE DETERMINED AT DATUM H. DIMENSIONS b AND c APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.08 AND 0.15 FROM THE TIP.

- DIMENSION & DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 TOTAL IN EXCESS OF DIMENSION 6 AT MAXIMUM MATERIAL CONDITION. THE DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT.

	MIL	LIMETE	RS		INCHES	}
DIM	MIN	NOM	MAX	MIN	NOM	MAX
Α			1.10			0.043
A1	0.00		0.10	0.000		0.004
A2	0.70	0.90	1.00	0.027	0.035	0.039
b	0.15	0.20	0.25	0.006	0.008	0.010
С	0.08	0.15	0.22	0.003	0.006	0.009
D	1.80	2.00	2.20	0.070	0.078	0.086
E	2.00	2.10	2.20	0.078	0.082	0.086
E1	1.15	1.25	1.35	0.045	0.049	0.053
е		0.65 BS	С	0	.026 BS	С
L	0.26	0.36	0.46	0.010	0.014	0.018
L2		0.15 BS	C		0.006 BS	SC
aaa	0.15				0.006	
bbb	0.30			0.012		
ccc	0.10			0.004		
ddd		0.10			0.004	

RECOMMENDED SOLDERING FOOTPRINT*



*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

GENERIC MARKING DIAGRAM*



XXX = Specific Device Code

= Date Code* = Pb-Free Package

(Note: Microdot may be in either location)

- *Date Code orientation and/or position may vary depending upon manufacturing location.
- *This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "■", may or may not be present. Some products may not follow the Generic Marking.

STYLES ON PAGE 2

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SC-88/SC70-6/SOT-363 CASE 419B-02 **ISSUE Y**

DATE 11 DEC 2012

STYLE 1: PIN 1. EMITTER 2 2. BASE 2 3. COLLECTOR 1 4. EMITTER 1 5. BASE 1 6. COLLECTOR 2	STYLE 2: CANCELLED	STYLE 3: CANCELLED	STYLE 4: PIN 1. CATHODE 2. CATHODE 3. COLLECTOR 4. EMITTER 5. BASE 6. ANODE	STYLE 5: PIN 1. ANODE 2. ANODE 3. COLLECTOR 4. EMITTER 5. BASE 6. CATHODE	STYLE 6: PIN 1. ANODE 2 2. N/C 3. CATHODE 1 4. ANODE 1 5. N/C 6. CATHODE 2
STYLE 7: PIN 1. SOURCE 2 2. DRAIN 2 3. GATE 1 4. SOURCE 1 5. DRAIN 1 6. GATE 2	STYLE 8: CANCELLED	STYLE 9: PIN 1. EMITTER 2 2. EMITTER 1 3. COLLECTOR 1 4. BASE 1 5. BASE 2 6. COLLECTOR 2	STYLE 10: PIN 1. SOURCE 2 2. SOURCE 1 3. GATE 1 4. DRAIN 1 5. DRAIN 2 6. GATE 2	STYLE 11: PIN 1. CATHODE 2 2. CATHODE 2 3. ANODE 1 4. CATHODE 1 5. CATHODE 1 6. ANODE 2	STYLE 12: PIN 1. ANODE 2 2. ANODE 2 3. CATHODE 1 4. ANODE 1 5. ANODE 1 6. CATHODE 2
STYLE 13: PIN 1. ANODE 2. N/C 3. COLLECTOR 4. EMITTER 5. BASE 6. CATHODE	STYLE 14: PIN 1. VREF 2. GND 3. GND 4. IOUT 5. VEN 6. VCC	STYLE 15: PIN 1. ANODE 1 2. ANODE 2 3. ANODE 3 4. CATHODE 3 5. CATHODE 2 6. CATHODE 1	STYLE 16: PIN 1. BASE 1 2. EMITTER 2 3. COLLECTOR 2 4. BASE 2 5. EMITTER 1 6. COLLECTOR 1	STYLE 17: PIN 1. BASE 1 2. EMITTER 1 3. COLLECTOR 2 4. BASE 2 5. EMITTER 2 6. COLLECTOR 1	STYLE 18: PIN 1. VIN1 2. VCC 3. VOUT2 4. VIN2 5. GND 6. VOUT1
STYLE 19: PIN 1. I OUT 2. GND 3. GND 4. V CC 5. V EN 6. V REF	STYLE 20: PIN 1. COLLECTOR 2. COLLECTOR 3. BASE 4. EMITTER 5. COLLECTOR 6. COLLECTOR	STYLE 21: PIN 1. ANODE 1 2. N/C 3. ANODE 2 4. CATHODE 2 5. N/C 6. CATHODE 1	STYLE 22: PIN 1. D1 (i) 2. GND 3. D2 (i) 4. D2 (c) 5. VBUS 6. D1 (c)	STYLE 23: PIN 1. Vn 2. CH1 3. Vp 4. N/C 5. CH2 6. N/C	STYLE 24: PIN 1. CATHODE 2. ANODE 3. CATHODE 4. CATHODE 5. CATHODE 6. CATHODE
STYLE 25: PIN 1. BASE 1 2. CATHODE 3. COLLECTOR 2 4. BASE 2 5. EMITTER 6. COLLECTOR 1	STYLE 26: PIN 1. SOURCE 1 2. GATE 1 3. DRAIN 2 4. SOURCE 2 5. GATE 2 6. DRAIN 1	STYLE 27: PIN 1. BASE 2 2. BASE 1 3. COLLECTOR 1 4. EMITTER 1 5. EMITTER 2 6. COLLECTOR 2	STYLE 28: PIN 1. DRAIN 2. DRAIN 3. GATE 4. SOURCE 5. DRAIN 6. DRAIN	STYLE 29: PIN 1. ANODE 2. ANODE 3. COLLECTOR 4. EMITTER 5. BASE/ANODE 6. CATHODE	STYLE 30: PIN 1. SOURCE 1 2. DRAIN 2 3. DRAIN 2 4. SOURCE 2 5. GATE 1 6. DRAIN 1

Note: Please refer to datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

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