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Texas Instruments SN74LV04ATPWREP

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Datasheet of SN74LV04ATPWREP - IC HEX INVERTER 14-TSSOP

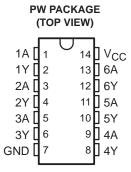
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SN74LV04A-EP HEX INVERTER

SCLS563A - JANUARY 2004 - REVISED MAY 2004

- Controlled Baseline
 - One Assembly/Test Site, One Fabrication Site
- Extended Temperature Performance of -40°C to 105°C
- Enhanced Diminishing Manufacturing Sources (DMS) Support
- Enhanced Product-Change Notification
- Qualification Pedigree[†]
- 2-V to 5.5-V V_{CC} Operation
- Max t_{pd} of 7.5 ns at 5 V
- † Component qualification in accordance with JEDEC and industry standards to ensure reliable operation over an extended temperature range. This includes, but is not limited to, Highly Accelerated Stress Test (HAST) or biased 85/85, temperature cycle, autoclave or unbiased HAST, electromigration, bond intermetallic life, and mold compound life. Such qualification testing should not be viewed as justifying use of this component beyond specified performance and environmental limits.

- Typical V_{OLP} (Output Ground Bounce)
 <0.8 V at V_{CC} = 3.3 V, T_A = 25°C
- Typical V_{OHV} (Output V_{OH} Undershoot)
 >2.3 V at V_{CC} = 3.3 V, T_A = 25°C
- Supports Mixed-Mode Voltage Operation on All Ports
- I_{off} Supports Partial-Power-Down Mode Operation



description/ordering information

This hex inverter is designed for 2-V to 5.5-V V_{CC} operation.

The SN74LV04A contains six independent inverters. This device performs the Boolean function $Y = \overline{A}$.

The device is fully specified for partial-power-down applications using I_{off}. The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

ORDERING INFORMATION

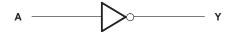
| TA | PACK | \GE [‡] | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|------------|------------------|--------------------------|---------------------|
| -40°C to 105°C | TSSOP - PW | Tape and reel | SN74LV04ATPWREP | LV04AEP |

[‡] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE (each inverter)

| (00.01111 | , |
|-----------|--------|
| INPUT | OUTPUT |
| Α | Y |
| Н | L |
| L | Н |

logic diagram, each inverter (positive logic)





Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.





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absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

| Supply voltage range, V _{CC} | 0.5 V to 7 V |
|--|---|
| Input voltage range, V _I (see Note 1) | –0.5 V to 7 V |
| Voltage range applied to any output in the high-impedance | |
| or power-off state, V _O (see Note 1) | |
| Output voltage range, VO (see Notes 1 and 2) | \dots -0.5 V to V _{CC} + 0.5 V |
| Input clamp current, I_{IK} ($V_I < 0$) | –20 mA |
| Output clamp current, I _{OK} (V _O < 0) | –50 mA |
| Continuous output current, I_O ($V_O = 0$ to V_{CC}) | ±25 mA |
| Continuous current through V _{CC} or GND | ±50 mA |
| Package thermal impedance, θ_{JA} (see Note 3) | 113°C/W |
| Storage temperature range, T _{stq} | –65°C to 150°C |

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

- NOTES: 1. The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed.
 - 2. This value is limited to 5.5 V maximum.
 - 3. The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions (see Note 4)

| | | | MIN | MAX | UNIT | |
|----------------|------------------------------------|--|---------------------|-----------------------|------|--|
| VCC | Supply voltage | | 2 | 5.5 | V | |
| | | V _{CC} = 2 V | 1.5 | | | |
| V | High lavel in a strong to a | $V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$ | $V_{CC} \times 0.7$ | | V | |
| V_{IH} | High-level input voltage | V _{CC} = 3 V to 3.6 V | $V_{CC} \times 0.7$ | | V | |
| | | $V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$ | $V_{CC} \times 0.7$ | | | |
| | | V _{CC} = 2 V | | 0.5 | | |
| ., | The Development of the con- | V _{CC} = 2.3 V to 2.7 V | | $V_{CC} \times 0.3$ | ., | |
| V_{IL} | Low-level input voltage | V _{CC} = 3 V to 3.6 V | | $V_{CC} \times 0.3$ | V | |
| | | V _{CC} = 4.5 V to 5.5 V | | V _{CC} × 0.3 | | |
| ۷ _I | Input voltage | · | 0 | 5.5 | V | |
| ۷o | Output voltage | | 0 | VCC | V | |
| | | V _{CC} = 2 V | | -50 | μΑ | |
| | | V _{CC} = 2.3 V to 2.7 V | | -2 | | |
| ЮН | High-level output current | V _{CC} = 3 V to 3.6 V | | -6 | mA | |
| | | V _{CC} = 4.5 V to 5.5 V | | -12 | | |
| | | V _{CC} = 2 V | | 50 | μΑ | |
| | | V _{CC} = 2.3 V to 2.7 V | | 2 | | |
| lOL | Low-level output current | V _{CC} = 3 V to 3.6 V | | 6 | mA | |
| | | V _{CC} = 4.5 V to 5.5 V | | 12 | | |
| | | V _{CC} = 2.3 V to 2.7 V | | 200 | | |
| Δt/Δν | Input transition rise or fall rate | V _{CC} = 3 V to 3.6 V | | 100 | ns/V | |
| | | V _{CC} = 4.5 V to 5.5 V | | 20 | | |
| T _A | Operating free-air temperature | -40 | 105 | °C | | |

NOTE 4: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.





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electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

| PARAMETER | TEST CONDITIONS | Vcc | MIN | TYP | MAX | UNIT |
|------------------|---|--------------|----------------------|-----|------|------|
| | I _{OH} = -50 μA | 2 V to 5.5 V | V _{CC} -0.1 | | | |
| | $I_{OH} = -2 \text{ mA}$ | 2.3 V | 2 | | | |
| VOH | $I_{OH} = -6 \text{ mA}$ | 3 V | 2.48 | | | V |
| | $I_{OH} = -12 \text{ mA}$ | 4.5 V | 3.8 | | | |
| | I _{OL} = 50 μA | 2 V to 5.5 V | | | 0.1 | |
| ., | I _{OL} = 2 mA | 2.3 V | | | 0.4 | ., |
| VOL | I _{OL} = 6 mA | 3 V | | | 0.44 | V |
| | I _{OL} = 12 mA | 4.5 V | | | 0.55 | |
| Ц | V _I = 5.5 V or GND | 0 to 5.5 V | | | ±1 | μΑ |
| Icc | $V_I = V_{CC}$ or GND, $I_O = 0$ | 5.5 V | | | 20 | μΑ |
| l _{off} | V _I or V _O = 0 to 5.5 V | 0 | | | 5 | μΑ |
| C. | V. V. a. or CND | 3.3 V | | 2.3 | | F |
| Ci | $V_I = V_{CC}$ or GND | 5 V | | 2.3 | | pF |

switching characteristics over recommended operating free-air temperature range, V_{CC} = 2.5 V \pm 0.2 V (unless otherwise noted) (see Figure 1)

| DADAMETED | FROM | то | LOAD | T, | T _A = 25°C | | MINI | MAY | LINUT |
|-----------------|---------|----------|------------------------|-----|-----------------------|------|------|-----|-------|
| PARAMETER | (INPUT) | (OUTPUT) | CAPACITANCE | MIN | TYP | MAX | MIN | MAX | UNIT |
| ^t pd | A | Y | C _L = 50 pF | | 10 | 15.5 | 1 | 18 | ns |

switching characteristics over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

| DADAMETED | FROM | то | LOAD | T, | չ = 25°C | ; | MINI | MAY | LINUT |
|-----------------|---------|----------|------------------------|-----|----------|------|------|-----|-------|
| PARAMETER | (INPUT) | (OUTPUT) | CAPACITANCE | MIN | TYP | MAX | MIN | MAX | UNIT |
| t _{pd} | А | Υ | C _L = 50 pF | | 7.3 | 10.6 | 1 | 12 | ns |

switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

| DADAMETED | FROM | то | LOAD | T, | Վ = 25°C | ; | MINI | MAY | LINUT |
|-----------------|---------|----------|------------------------|-----|-----------------|-----|------|-----|-------|
| PARAMETER | (INPUT) | (OUTPUT) | CAPACITANCE | MIN | TYP | MAX | MIN | MAX | UNIT |
| ^t pd | А | Υ | C _L = 50 pF | | 5.1 | 7.5 | 1 | 8.5 | ns |





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noise characteristics, V_{CC} = 3.3 V, C_L = 50 pF, T_A = 25°C (see Note 5)

| | PARAMETER | MIN | TYP | MAX | UNIT |
|---------------------|---|------|------|------|------|
| V _{OL(P)} | Quiet output, maximum dynamic V _{OL} | | 0.3 | 0.8 | V |
| V _{OL(V)} | Quiet output, minimum dynamic V _{OL} | | -0.1 | -0.8 | V |
| VOH(V) | Quiet output, minimum dynamic VOH | | 3.1 | | V |
| V _{IH} (D) | High-level dynamic input voltage | 2.31 | | | V |
| V _{IL(D)} | Low-level dynamic input voltage | | | 0.99 | V |

NOTE 5: Characteristics are for surface-mount packages only.

operating characteristics, $T_A = 25^{\circ}C$

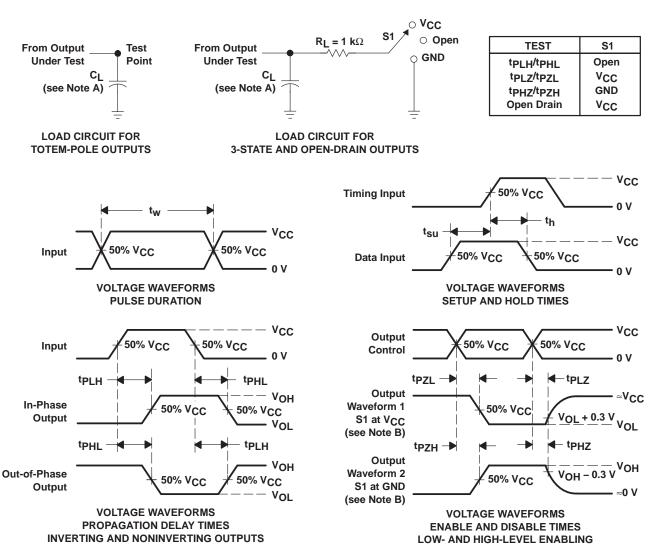
| | PARAMETER | TEST CO | VCC | TYP | UNIT | |
|-----|-------------------------------|------------------------|--------------|-------|------|-----|
| C . | Dower discipation connectones | $C_1 = 50 pF$ | f = 10 MHz | 3.3 V | 9.6 | nE. |
| Cpd | Power dissipation capacitance | $C_L = 50 \text{ pr},$ | 1 = 10 IVINZ | 5 V | 11.4 | p⊦ |



SN74LV04A-EP HEX INVERTER

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PARAMETER MEASUREMENT INFORMATION



- NOTES: A. C_I includes probe and jig capacitance.
 - B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
 - C. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_O = 50 \Omega$, $t_f \leq 3$ ns.
 - D. The outputs are measured one at a time, with one input transition per measurement.
 - E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
 - F. tpzL and tpzH are the same as ten.
 - G. tpHL and tpLH are the same as tpd.
 - H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms





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PACKAGE OPTION ADDENDUM

11-Apr-2013

PACKAGING INFORMATION

| Orderable Device | Status | Package Type | Package | Pins | Package | Eco Plan | Lead/Ball Finish | MSL Peak Temp | Op Temp (°C) | Top-Side Markings | Samples |
|------------------|--------|--------------|---------|------|---------|----------------------------|------------------|--------------------|--------------|-------------------|---------|
| | (1) | | Drawing | | Qty | (2) | | (3) | | (4) | |
| SN74LV04ATPWREP | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 105 | LV04AEP | Samples |
| V62/04691-01XE | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 105 | LV04AEP | Samples |

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design. PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): Tl's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between

the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight

in homogeneous material)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) Multiple Top-Side Markings will be inside parentheses. Only one Top-Side Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Top-Side Marking for that device.

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PACKAGE OPTION ADDENDUM

11-Apr-2013

| Catalog: | SN74LV04A |
|----------|-----------|
|----------|-----------|

• Automotive: SN74LV04A-Q1

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects

Addendum-Page 2

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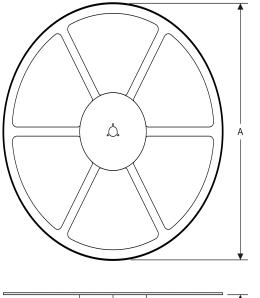


PACKAGE MATERIALS INFORMATION

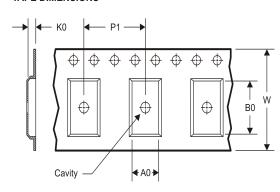
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TAPE AND REEL INFORMATION

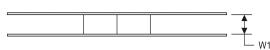
REEL DIMENSIONS



TAPE DIMENSIONS



| | A0 | Dimension designed to accommodate the component width |
|---|----|---|
| | В0 | Dimension designed to accommodate the component length |
| Γ | K0 | Dimension designed to accommodate the component thickness |
| | W | Overall width of the carrier tape |
| Γ | P1 | Pitch between successive cavity centers |



TAPE AND REEL INFORMATION

*All dimensions are nominal

| Device | Package Type | Package Drawing | | SPQ | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|-----------------|-----------------|--------------------|----|------|--------------------------|--------------------------|------------|------------|------------|------------|-----------|------------------|
| SN74LV04ATPWREP | TSSOP | PW | 14 | 2000 | 330.0 | 12.4 | 6.9 | 5.6 | 1.6 | 8.0 | 12.0 | Q1 |



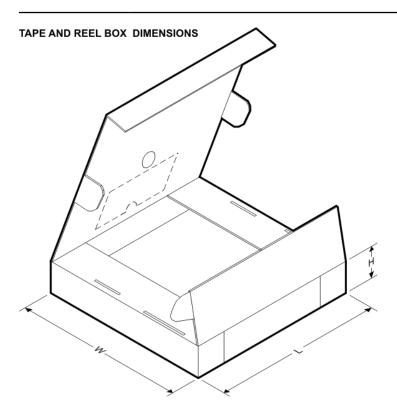
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*All dimensions are nominal

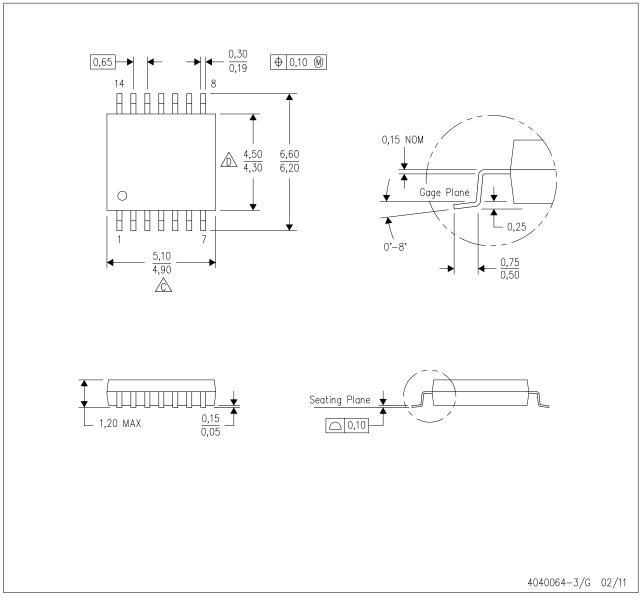
| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|-----------------|--------------|-----------------|------|------|-------------|------------|-------------|
| SN74LV04ATPWREP | TSSOP | PW | 14 | 2000 | 367.0 | 367.0 | 35.0 |



MECHANICAL DATA

PW (R-PDSO-G14)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153

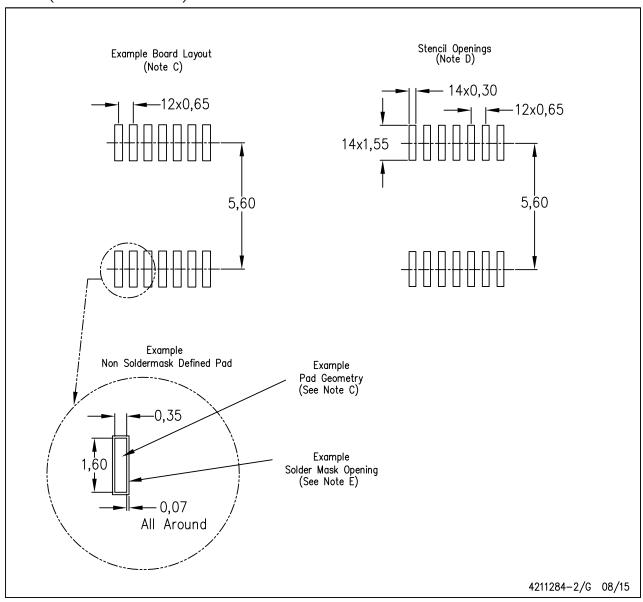




LAND PATTERN DATA

PW (R-PDSO-G14)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.





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