74LVC06A Hex inverter with open-drain outputs Rev. 6 – 10 November 2011

Product data sheet

1. General description

The 74LVC06A provides six inverting buffers. The outputs are open-drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V applications.

2. Features and benefits

- 5 V tolerant inputs and outputs (open-drain) for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 5.5 V
- CMOS low power consumption
- Direct interface with TTL levels
- Complies with JEDEC standard:
 - JESD8-7A (1.65 V to 1.95 V)
 - JESD8-5A (2.3 V to 2.7 V)
 - ◆ JESD8-C/JESD36 (2.7 V to 3.6 V)
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-B exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

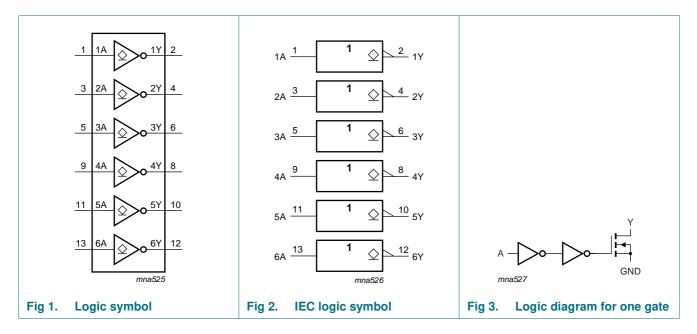
Table 1.Ordering information

| Type number | Package | | | | | | |
|-------------|-------------------|----------|--|----------|--|--|--|
| | Temperature range | Name | Description | Version | | | |
| 74LVC06AD | –40 °C to +125 °C | SO14 | plastic small outline package; 14 leads; body width 3.9 mm | SOT108-1 | | | |
| 74LVC06APW | –40 °C to +125 °C | TSSOP14 | plastic thin shrink outline package; 14 leads; body width 4.4 mm | SOT402-1 | | | |
| 74LVC06ABQ | –40 °C to +125 °C | DHVQFN14 | plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body $2.5 \times 3 \times 0.85$ mm | SOT762-1 | | | |



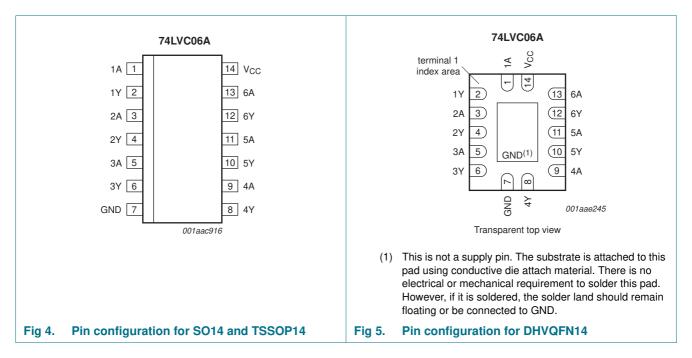
Hex inverter with open-drain outputs

4. Functional diagram



5. Pinning information

5.1 Pinning



74LVC06A Product data sheet

5.2 Pin description

| Table 2. Pin descript | ion | |
|------------------------|--------------------|----------------|
| Symbol | Pin | Description |
| 1A, 2A, 3A, 4A, 5A, 6A | 1, 3, 5, 9, 11, 13 | data input |
| 1Y, 2Y, 3Y, 4Y, 5Y, 6Y | 2, 4, 6, 8, 10, 12 | data output |
| GND | 7 | ground (0 V) |
| V _{CC} | 14 | supply voltage |

6. Functional description

| Table 3. | Function selection [1] | |
|-------------|------------------------|--------|
| Input nA | | Output |
| nA | | nY |
| L | | Z |
| Н | | L |
| - | | |

[1] H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state

7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | Min | Max | Unit |
|------------------|-------------------------|--|-----------------|------|------|
| V _{CC} | supply voltage | | -0.5 | +6.5 | V |
| I _{IK} | input clamping current | V ₁ < 0 | -50 | - | mA |
| VI | input voltage | | <u>[1]</u> –0.5 | +6.5 | V |
| I _{OK} | output clamping current | V _O < 0 | -50 | - | mA |
| Vo | output voltage | active mode | [2] -0.5 | +6.5 | V |
| | | high-impedance mode | [2] -0.5 | +6.5 | V |
| lo | output current | $V_{O} = 0 V$ to V_{CC} | - | 50 | mA |
| I _{CC} | supply current | | - | 100 | mA |
| I _{GND} | ground current | | -100 | - | mA |
| T _{stg} | storage temperature | | -65 | +150 | °C |
| P _{tot} | total power dissipation | $T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ | [3] _ | 500 | mW |

[1] The minimum input voltage ratings may be exceeded if the input current ratings are observed.

[2] The output voltage ratings may be exceeded if the output current ratings are observed.

For SO14 packages: above 70 °C derate linearly with 8 mW/K.
 For TSSOP14 packages: above 60 °C derate linearly with 5.5 mW/K.
 For DHVQFN14 packages: above 60 °C derate linearly with 4.5 mW/K.

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8. Recommended operating conditions

| Table 5. | Recommended operating of | conditions | | | | |
|------------------|--------------------------------|--|------|-----|------|------|
| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
| V _{CC} | supply voltage | | 1.65 | - | 5.5 | V |
| | | functional | 1.2 | - | - | V |
| VI | input voltage | | 0 | - | 5.5 | V |
| Vo | output voltage | active mode | 0 | - | 5.5 | V |
| | | high-impedance mode | 0 | - | 5.5 | V |
| T _{amb} | ambient temperature | | -40 | - | +125 | °C |
| Δt/ΔV | input transition rise and fall | V_{CC} = 1.65 V to 2.7 V | 0 | - | 20 | ns/V |
| | rate | $V_{CC} = 2.7 \text{ V} \text{ to } 5.5 \text{ V}$ | 0 | - | 10 | ns/V |

9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Parameter Conditions -40 °C to +85 °C | | 85 °C –40 °C t | | to +125 °C Unit | | |
|------------------|------------------------------|---|----------------------|----------------|----------------------|----------------------|----------------------|----|
| | | | Min | Typ[1] | Max | Min | Max | |
| V _{IH} | HIGH-level | V _{CC} = 1.2 V | 1.08 | - | - | 1.08 | - | V |
| | input voltage | $V_{CC} = 1.65 \text{ V}$ to 1.95 V | $0.65 \times V_{CC}$ | - | - | $0.65 \times V_{CC}$ | - | V |
| | | V_{CC} = 2.3 V to 2.7 V | 1.7 | - | - | 1.7 | - | V |
| | | $V_{CC} = 2.7 V \text{ to } 3.6 V$ | 2.0 | - | - | 2.0 | - | V |
| | | V_{CC} = 4.5 V to 5.5 V | $0.7\times V_{CC}$ | - | - | $0.7\times V_{CC}$ | - | V |
| V _{IL} | LOW-level input | V _{CC} = 1.2 V | - | - | 0.12 | - | 0.12 | V |
| | voltage | $V_{CC} = 1.65 \text{ V}$ to 1.95 V | - | - | $0.35 \times V_{CC}$ | - | $0.35 \times V_{CC}$ | V |
| | | V_{CC} = 2.3 V to 2.7 V | - | - | 0.7 | - | 0.7 | V |
| | | $V_{CC} = 2.7 V \text{ to } 3.6 V$ | - | - | 0.8 | - | 0.8 | V |
| | | V_{CC} = 4.5 V to 5.5 V | - | - | $0.30 \times V_{CC}$ | - | $0.30 \times V_{CC}$ | V |
| V_{OL} | LOW-level output voltage | $V_I = V_{IH} \text{ or } V_{IL}$ | | | | | | |
| | | $I_{O} = 100 \ \mu A;$ $V_{CC} = 1.65 \ V \text{ to } 5.5 \ V$ | - | - | 0.20 | - | 0.3 | V |
| | | $I_{O} = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$ | - | - | 0.45 | - | 0.6 | V |
| | | $I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$ | - | - | 0.3 | - | 0.75 | V |
| | | $I_{O} = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$ | - | - | 0.4 | - | 0.6 | V |
| | | $I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$ | - | - | 0.55 | - | 0.8 | V |
| | | $I_{O} = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$ | - | - | 0.55 | - | 0.8 | V |
| lı | input leakage current | $V_{I} = 5.5 V \text{ or GND};$ $V_{CC} = 1.65 V \text{ to 5.5 V}$ | - | ±0.1 | ±5 | - | ±20 | μA |
| I _{OZ} | OFF-state output current | | - | ±0.1 | ±10 | - | ±20 | μA |
| I _{OFF} | power-off leakage current | $V_1 \text{ or } V_O = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$ | - | ±0.1 | ±10 | - | ±20 | μA |

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| Symbol | Parameter | neter Conditions | -40 | –40 °C to +85 °C | | | o +125 °C | Unit |
|-----------------|---------------------------|--|-----|------------------|-----|-----|-----------|------|
| | | | Min | Typ[1] | Max | Min | Max | |
| I _{CC} | supply current | | - | 0.1 | 10 | - | 40 | μA |
| ΔI_{CC} | additional supply current | per input pin; $V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A};$ $V_{CC} = 2.7 \text{ V to } 5.5 \text{ V}$ | - | 5 | 500 | - | 5000 | μA |
| CI | input capacitance | $V_{CC} = 0 V \text{ to } 5.5 V;$ $V_I = GND \text{ to } V_{CC}$ | - | 5.0 | - | - | - | pF |

Table 6. Static characteristics ... continued

[1] All typical values are measured at V_{CC} = 3.3 V (unless stated otherwise) and T_{amb} = 25 °C.

10. Dynamic characteristics

Table 7. **Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 7.

| Symbol | Parameter | Conditions | | -40 | °C to +8 | 5 °C | –40 °C to | o +125 ℃ | Unit |
|------------------|------------------------------------|--|-----|-----|----------------------|------|-----------|----------|------|
| | | | | Min | Typ <mark>[1]</mark> | Max | Min | Max | |
| t _{PZL} | OFF-state to LOW | nA to nY; see Figure 6 | ' | | • | | | | |
| | propagation delay | V _{CC} = 1.2 V | | - | 9 | - | - | - | ns |
| | | $V_{CC} = 1.65 \text{ V} \text{ to } 1.95 \text{ V}$ | | 0.5 | 2.8 | 5.7 | 0.5 | 6.7 | ns |
| | | $V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$ | | 0.5 | 1.9 | 3.1 | 0.5 | 4.0 | ns |
| | | $V_{CC} = 2.7 V$ | | 0.5 | 1.8 | 3.9 | 0.5 | 5.0 | ns |
| | | $V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$ | | 0.5 | 1.8 | 3.7 | 0.5 | 5.0 | ns |
| | | $V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$ | | 0.7 | 1.5 | 2.5 | 0.7 | 3.5 | ns |
| t _{PLZ} | LOW to OFF-state propagation delay | nA to nY; see Figure 6 | | | | | | | |
| | | V _{CC} = 1.2 V | | - | 10 | - | - | - | ns |
| | | $V_{CC} = 1.65 \text{ V}$ to 1.95 V | | 0.5 | 2.6 | 5.7 | 0.5 | 6.7 | ns |
| | | $V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$ | | 0.5 | 1.4 | 3.1 | 0.5 | 4.0 | ns |
| | | $V_{CC} = 2.7 V$ | | 0.5 | 2.6 | 3.9 | 0.5 | 5.0 | ns |
| | | $V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$ | | 0.5 | 2.2 | 3.7 | 0.5 | 5.0 | ns |
| | | $V_{CC} = 4.5 \text{ V} \text{ to } 5.5 \text{ V}$ | | 0.6 | 1.5 | 2.6 | 0.6 | 3.5 | ns |
| C _{PD} | power dissipation | per buffer; $V_I = GND$ to V_{CC} | [2] | | | | | | |
| | capacitance | $V_{CC} = 1.65 \text{ V}$ to 1.95 V | | - | 6.5 | - | - | - | pF |
| | | $V_{CC} = 2.3 \text{ V} \text{ to } 2.7 \text{ V}$ | | - | 6.9 | - | - | - | pF |
| | | $V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$ | | - | 7.2 | - | - | - | рF |

[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.2 V, 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.

[2] C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz; f_o = output frequency in MHz

 C_L = output load capacitance in pF

V_{CC} = supply voltage in Volts

N = number of inputs switching

 $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs

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11. Waveforms

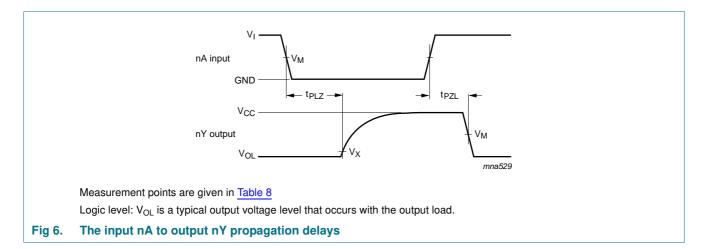


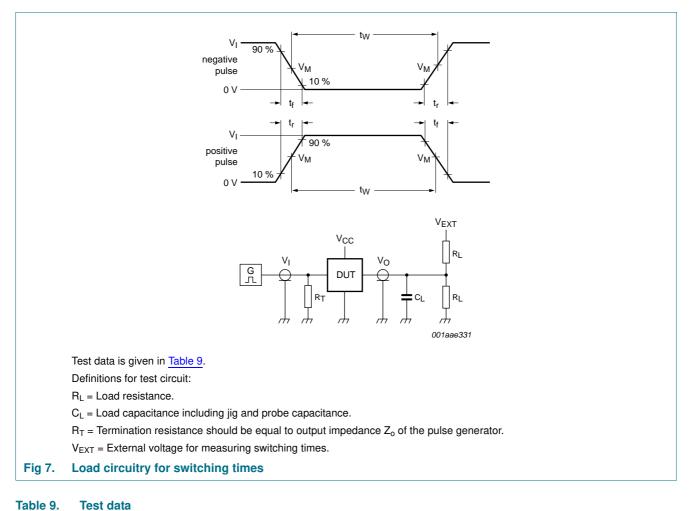
Table 8. Measurement points

| Supply voltage | Input | Output |
|-------------------------|--------------------|--------------------------|
| V _{cc} | V _M | V _X |
| < 2.7 V | $0.5\times V_{CC}$ | V _{OL} + 0.15 V |
| \geq 2.7 V to 3.6 V | 1.5 V | V _{OL} + 0.3 V |
| $\geq 4.5~V$ to 5.5 V | $0.5 	imes V_{CC}$ | V _{OL} + 0.3 V |

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| Supply voltage | Input | | Load | Load | | V _{EXT} | | |
|------------------|-----------------|---------------------------------|-------|-------|-------------------------------------|-------------------------------------|-------------------------------------|--|
| | VI | t _r , t _f | CL | RL | t _{PLH} , t _{PHL} | t _{PLZ} , t _{PZL} | t _{PHZ} , t _{PZH} | |
| 1.2 V | V _{CC} | ≤ 2 ns | 30 pF | 1 kΩ | open | $2 \times V_{CC}$ | GND | |
| 1.65 V to 1.95 V | V _{CC} | \leq 2 ns | 30 pF | 1 kΩ | open | $2\times V_{CC}$ | GND | |
| 2.3 V to 2.7 V | V _{CC} | \leq 2 ns | 30 pF | 500 Ω | open | $2\times V_{CC}$ | GND | |
| 2.7 V | 2.7 V | \leq 2.5 ns | 50 pF | 500 Ω | open | $2\times V_{CC}$ | GND | |
| 3.0 V to 3.6 V | 2.7 V | \leq 2.5 ns | 50 pF | 500 Ω | open | $2\times V_{CC}$ | GND | |
| 4.5 V to 5.5 V | V _{CC} | ≤ 2.5 ns | 50 pF | 500 Ω | open | $2 \times V_{CC}$ | GND | |

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12. Package outline

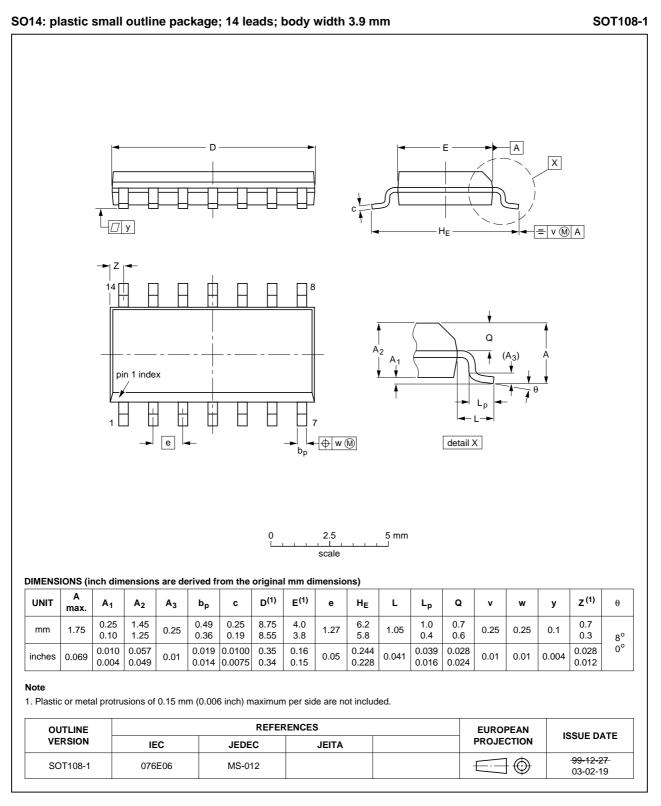


Fig 8. Package outline SOT108-1 (SO14)

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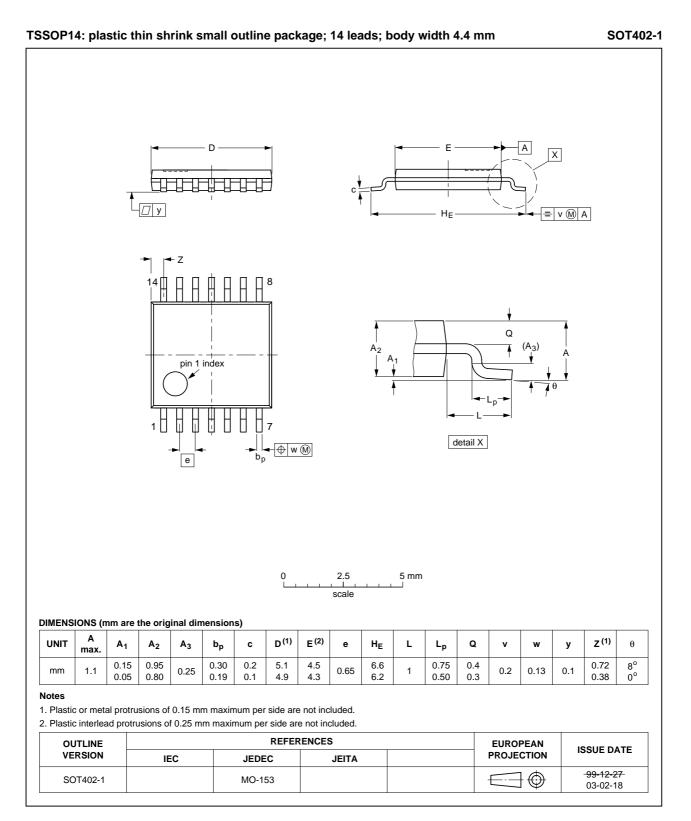
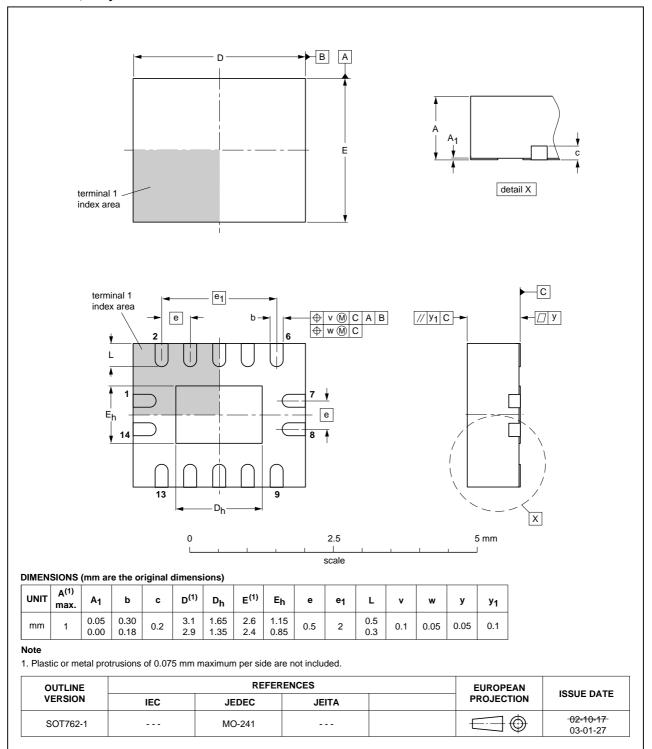


Fig 9. Package outline SOT402-1 (TSSOP14)

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DHVQFN14: plastic dual in-line compatible thermal enhanced very thin quad flat package; no leads; 14 terminals; body 2.5 x 3 x 0.85 mm SOT762-1

Fig 10. Package outline SOT762-1 (DHVQFN14)

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13. Abbreviations

| Table 10. | Abbreviations |
|-----------|-----------------------------|
| Acronym | Description |
| CDM | Charged Device Model |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| HBM | Human Body Model |
| MM | Machine Model |
| TTL | Transistor-Transistor Logic |

14. Revision history

| Table 11. Rev | vision history | | | |
|----------------|---|--|-------------------------------------|----------------------------|
| Document ID | Release date | Data sheet status | Change notice | Supersedes |
| 74LVC06A v.6 | 20111110 | Product data sheet | - | 74LVC06A v.5 |
| Modifications: | <u>Table 6</u> : Condition | ns column, additional supp | ly current V _{CC} range up | dated |
| 74LVC06A v.5 | 20111024 | Product data sheet | - | 74LVC06A v.4 |
| Modifications: | Table 7: values a | dded for lower voltage ran | ges | |
| 74LVC06A v.4 | 20110810 | Product data sheet | - | 74LVC06A v.3 |
| Modifications: | The format of this of NXP Semiconor | s data sheet has been rede ductors. | esigned to comply with the | ne new identity guidelines |
| | Legal texts have | been adapted to the new o | company name where ap | ppropriate. |
| | • Table 4, Table 5, | Table 6, Table 7, and Table | e 9: values added for low | ver voltage ranges. |
| 74LVC06A v.3 | 20031127 | Product specification | - | 74LVC06A v.2 |
| 74LVC06A v.2 | 20030828 | Product specification | - | 74LVC06A v.1 |
| 74LVC06A v.1 | 20000307 | Product specification | - | - |

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| Document status[1][2] | Product status ^[3] | Definition |
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[1] Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

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