1. General description

The 74LVT16373A is a 16-bit D-type transparent latch with 3-state outputs. The device can be used as two 8-bit transparent latches or a single 16-bit transparent latch. The device features two latch enables (1LE and 2LE) and two output enables ($1\overline{OE}$ and $2\overline{OE}$), each controlling 8-bits. When nLE is HIGH, data at the inputs enter the latches. In this condition the latches are transparent, a latch output will change each time its corresponding D-input changes. When nLE is LOW the latches store the information that was present at the inputs a set-up time preceding the HIGH-to-LOW transition of nLE. A HIGH on $n\overline{OE}$ causes the outputs to assume a high-impedance OFF-state. Operation of the $n\overline{OE}$ input does not affect the state of the latches. Bus hold data inputs eliminate the need for external pull-up resistors to define unused inputs

2. Features and benefits

- 16-bit transparent latch
- 3-state buffers
- Wide supply voltage range from 2.7 V to 3.6 V
- · BiCMOS high speed and output drive
- Output capability: +64 mA/–32 mA
- Direct interface with TTL levels
- Overvoltage tolerant inputs to 5.5 V
- · Bus-hold data inputs eliminate the need for external pull-up resistors to hold unused inputs
- · Live insertion/extraction permitted
- Power-up reset
- Power-up 3-state
- No bus current loading when output is tied to 5 V bus
- I_{OFF} circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 500 mA per JESD 78 Class II Level B
- Complies with JEDEC standard JESD8C (2.7 V to 3.6 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to 85 °C

3. Ordering information

Table 1. Ordering information

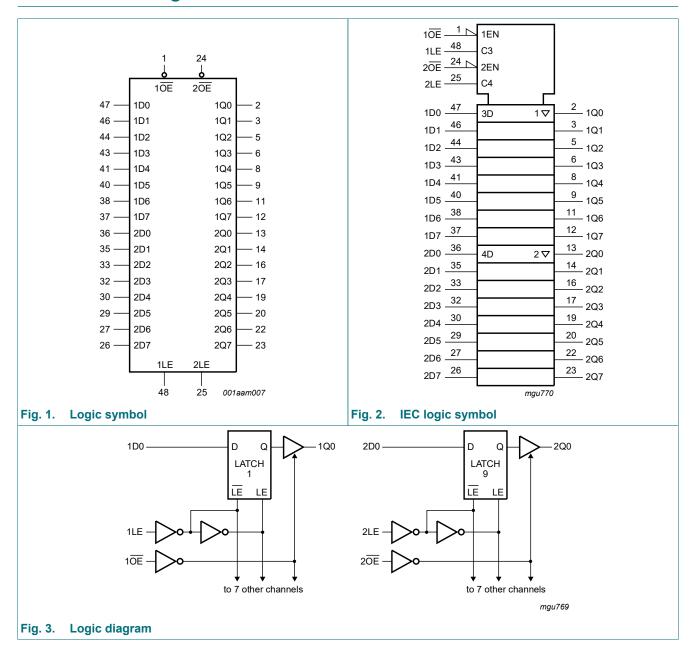
| Type number | Package | ² ackage | | | | | |
|----------------|-------------------|---------------------|--|----------|--|--|--|
| | Temperature range | Name | Description | Version | | | |
| 74LVT16373ADGG | -40 °C to +85 °C | TSSOP48 | plastic thin shrink small outline package; 48 leads; body width 6.1 mm | SOT362-1 | | | |



Product data sheet

3.3 V 16-bit transparent D-type latch; 3-state

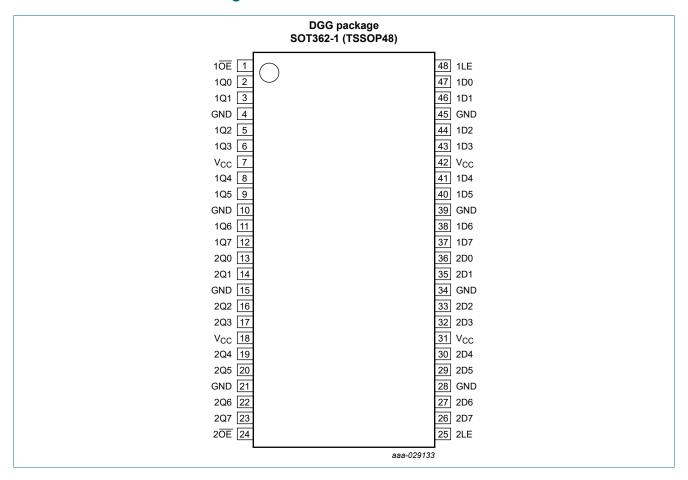
4. Functional diagram



3.3 V 16-bit transparent D-type latch; 3-state

5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

| Symbol | Pin | Description |
|--|--------------------------------|-----------------------------------|
| 1D0, 1D1, 1D2, 1D3, 1D4, 1D5, 1D6, 1D7 | 47, 46, 44, 43, 41, 40, 38, 37 | data inputs |
| 2D0, 2D1, 2D2, 2D3, 2D4, 2D5, 2D6, 2D7 | 36, 35, 33, 32, 30, 29, 27, 26 | data inputs |
| 1Q0, 1Q1, 1Q2, 1Q3, 1Q4, 1Q5, 1Q6, 1Q7 | 2, 3, 5, 6, 8, 9, 11, 12 | data outputs |
| 2Q0, 2Q1, 2Q2, 2Q3, 2Q4, 2Q5, 2Q6, 2Q7 | 13, 14, 16, 17, 19, 20, 22, 23 | data outputs |
| 10E, 20E | 1, 24 | output enable inputs (active LOW) |
| 1LE, 2LE | 48, 25 | latch enable inputs (active HIGH) |
| GND | 4, 10, 15, 21, 28, 34, 39, 45 | ground (0 V) |
| Vcc | 7, 18, 31, 42 | supply voltage |

3.3 V 16-bit transparent D-type latch; 3-state

6. Functional description

Table 3. Function table

H = HIGH voltage level; h = HIGH voltage level one set-up time prior to the HIGH-to-LOW LE transition;

L = LOW voltage level; I = LOW voltage level one set-up time prior to the HIGH-to-LOW LE transition;

↓ = HIGH-to-LOW LE transition;

X = don't care; NC = No change; Z = high-impedance OFF-state.

| Operating mode | Inputs | | Internal | Outputs | |
|---|--------|----------|----------|---------|-----|
| | nOE | nLE | nDn | latches | nQn |
| enable and read register (transparent mode) | L | Н | L | L | L |
| | L | Н | Н | Н | Н |
| latch and read register | L | ↓ | I | L | L |
| | L | \ | h | Н | Н |
| Hold | L | L | X | NC | NC |
| Latch register and disable outputs | Н | L | Х | NC | Z |
| | Н | Н | nDn | nDn | Z |

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 | +4.6 | V |
| VI | input voltage | [1] | -0.5 | +7.0 | V |
| Vo | output voltage | output in OFF-state or HIGH-state [1] | -0.5 | +7.0 | V |
| I _{IK} | input clamping current | V _I < 0 V | -50 | - | mA |
| I _{OK} | output clamping current | V _O < 0 V | -50 | - | mA |
| Io | output current | output in LOW-state | - | 128 | mA |
| | | output in HIGH-state | -64 | - | mA |
| T _{stg} | storage temperature | | -65 | +150 | °C |
| Tj | junction temperature | [2] | - | +150 | °C |

^[1] The input and output negative voltage ratings may be exceeded if the input and output clamp current ratings are observed.

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-------------------------------------|-----------------|-----|-----|-----|------|
| V_{CC} | supply voltage | | 2.7 | - | 3.6 | V |
| V_{I} | input voltage | | 0 | - | 5.5 | V |
| Δt/ΔV | input transition rise and fall rate | outputs enabled | - | - | 10 | ns/V |
| T _{amb} | ambient temperature | in free-air | -40 | +25 | +85 | °C |

74LVT16373A

^[2] The performance capability of a high-performance integrated circuit in conjunction with its thermal environment can create junction temperatures which are detrimental to reliability.

3.3 V 16-bit transparent D-type latch; 3-state

9. Static characteristics

Table 6. Static characteristics

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

| Symbol | Parameter | Conditions | Min | Typ[1] | Max | Unit |
|-----------------------|------------------------------------|--|-----------------------|-----------------|------|------|
| V _{IK} | input clamping voltage | V _{CC} = 2.7 V; I _{IK} = -18 mA | - | -0.85 | -1.2 | V |
| V _{IH} | HIGH-level input voltage | | 2.0 | - | - | V |
| V _{IL} | LOW-level input voltage | | - | - | 0.8 | V |
| V _{OH} | HIGH-level output | V_{CC} = 2.7 V to 3.6 V; I_{OH} = -100 μ A | V _{CC} - 0.2 | V _{CC} | - | V |
| | voltage | V _{CC} = 2.7 V; I _{OH} = -8 mA | 2.4 | 2.5 | - | V |
| | | V _{CC} = 3.0 V; I _{OH} = -32 mA | 2.0 | 2.3 | - | V |
| V _{OL} | LOW-level output voltage | V _{CC} = 2.7 V; I _{OL} = 100 μA | - | 0.07 | 0.2 | V |
| | | V _{CC} = 2.7 V; I _{OL} = 24 mA | - | 0.3 | 0.5 | V |
| | | V _{CC} = 3.0 V; I _{OL} = 16 mA | - | 0.25 | 0.4 | V |
| | | V _{CC} = 3.0 V; I _{OL} = 32 mA | - | 0.3 | 0.5 | V |
| | | V _{CC} = 3.0 V; I _{OL} = 64 mA | - | 0.4 | 0.55 | V |
| I _{OH} | HIGH-level output current | | - | - | -32 | mA |
| I _{OL} | LOW-level output current | | - | - | 32 | mA |
| | | current duty cycle ≤ 50%; f ≥ 1kHz | - | - | 64 | mA |
| V _{OL(pu)} | power-up LOW-level output voltage | $V_{CC} = 3.6 \text{ V}; I_O = 1 \text{ mA}; V_I = V_{CC} \text{ or GND}$ [2 | - | 0.1 | 0.55 | V |
| I _I | input leakage current | all input pins | | | | |
| | | V _{CC} = 0 V or 3.6 V; V _I = 5.5 V | - | 0.4 | 10 | μA |
| | | control pins | | | | |
| | | $V_{CC} = 3.6 \text{ V}; V_I = V_{CC} \text{ or GND}$ | - | ±0.1 | ±1 | μA |
| | | data pins [3 |] | | | |
| | | $V_{CC} = 3.6 \text{ V}; V_{I} = V_{CC}$ | - | 0.1 | 1 | μA |
| | | V _{CC} = 3.6 V; V _I = 0 V | - | -0.4 | -5 | μA |
| I _{OFF} | power-off leakage current | $V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 0 \text{ V to } 4.5 \text{ V}$ | - | 0.1 | ±100 | μA |
| I _{BHL} | bus hold LOW current | nDn input; $V_{CC} = 3 \text{ V}$; $V_I = 0.8 \text{ V}$ | 75 | 135 | - | μA |
| I _{BHH} | bus hold HIGH current | nDn input; $V_{CC} = 3 \text{ V}$; $V_I = 2.0 \text{ V}$ | -75 | -135 | - | μA |
| I _{BHLO} | bus hold LOW overdrive current | nDn input; $V_{CC} = 3.6 \text{ V}$; $V_I = 0 \text{ V}$ to 3.6 V [4] | 500 | - | - | μA |
| Івнно | bus hold HIGH overdrive current | nDn input; $V_{CC} = 3.6 \text{ V}$; $V_I = 0 \text{ V}$ to 3.6 V [4] | - | - | -500 | μA |
| I _{CEX} | output high leakage current | nQn output in HIGH-state when $V_O > V_{CC}$; $V_O = 5.5 \text{ V}$; $V_{CC} = 3.0 \text{ V}$ | - | 50 | 125 | μA |
| I _{O(pu/pd)} | power-up/power-down output current | $V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ [5 $V_I = \text{GND or } V_{CC}; \text{ nOE} = \text{don't care}$ | - | 1 | ±100 | μA |
| I _{OZ} | OFF-state output current | V_{CC} = 3.6 V; V_I = V_{IH} or V_{IL} | | | | |
| | | V _O = 3.0 V | - | 0.5 | 5 | μA |
| | | V _O = 0.5 V | - | 0.5 | -5 | μA |

3.3 V 16-bit transparent D-type latch; 3-state

| Symbol | Parameter | Conditions | Min | Typ[1] | Max | Unit |
|------------------|---------------------------|---|-----|--------|------|------|
| I _{CC} | supply current | $V_{CC} = 3.6 \text{ V}; V_I = \text{GND or } V_{CC}; I_O = 0 \text{ A}$ | | | | |
| | | output HIGH | - | 0.07 | 0.12 | mA |
| | | output LOW | - | 4.0 | 6 | mA |
| | | outputs disabled [6] | - | 0.07 | 0.12 | mA |
| ΔI _{CC} | additional supply current | per input pin; V_{CC} = 3.0 V to 3.6 V; [7] one input at V_{CC} - 0.6 V and other inputs at V_{CC} or GND | - | 0.1 | 0.2 | mA |
| Cı | input capacitance | V _I = 0 V or 3.0 V | - | 3 | - | pF |
| Co | output capacitance | outputs disabled; V _O = 0 V or 3.0 V | - | 9 | - | pF |

- [1] All typical values are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C.
- [2] For valid test results, data must not be loaded into the latches after applying power.
- Unused pins at V_{CC} or GND.
- [4] This is the bus hold overdrive current required to force the input to the opposite logic state.
- This parameter is valid for any V_{CC} between 0 V and 1.2 V with a transition time of up to 10 ms. From V_{CC} = 1.2 V to V_{CC} = 3.3 V ± 0.3 V a transition time of 100 μs is permitted. This parameter is valid for T_{amb} = 25 °C only.
- [6] I_{CC} is measured with outputs pulled to V_{CC} or GND.
- [7] This is the increase in supply current for each input at the specified voltage level other than V_{CC} or GND.

10. Dynamic characteristics

Table 7. Dynamic characteristics

At recommended operating conditions; Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 8.

| Symbol | Parameter | Conditions | Min | Typ[1] | Max | Unit |
|------------------|-------------------------------------|----------------------------------|-----|--------|-----|------|
| t _{PLH} | LOW to HIGH | nDn to nQn; see Fig. 4 | | | | |
| | propagation delay | V _{CC} = 2.7 V | - | - | 4.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 1.8 | 3.9 | ns |
| t _{PHL} | HIGH to LOW | nDn to nQn; see Fig. 4 | | | | |
| | propagation delay | V _{CC} = 2.7 V | - | - | 4.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 1.9 | 3.9 | ns |
| t _{PLH} | LOW to HIGH | nLE to nQn; see Fig. 5 | | | | |
| | propagation delay | V _{CC} = 2.7 V | - | - | 5.4 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 2.1 | 4.8 | ns |
| t _{PHL} | HIGH to LOW | nLE to nQn; see Fig. 5 | | | | |
| | propagation delay | V _{CC} = 2.7 V | - | - | 5.4 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 2.2 | 4.8 | ns |
| t _{PZH} | OFF-state to HIGH propagation delay | nOE to nQn; see Fig. 6 | | | | |
| | | V _{CC} = 2.7 V | - | - | 5.1 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.1 | 2.8 | 4.5 | ns |
| t _{PZL} | OFF-state to LOW | nOE to nQn; see Fig. 6 | | | | |
| | propagation delay | V _{CC} = 2.7 V | - | - | 4.7 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.1 | 2.6 | 4.3 | ns |
| t _{PHZ} | HIGH to OFF-state | nOE to nQn; see Fig. 6 | | | | |
| | propagation delay | V _{CC} = 2.7 V | - | - | 5.1 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.1 | 3.3 | 4.5 | ns |
| t_{PLZ} | LOW to OFF-state | nOE to nQn; see Fig. 6 | | | | |
| | propagation delay | V _{CC} = 2.7 V | - | - | 4.7 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.1 | 3.0 | 4.3 | ns |

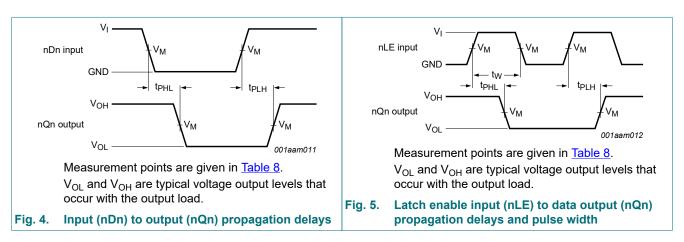
74LVT16373A

3.3 V 16-bit transparent D-type latch; 3-state

| Symbol | Parameter | Conditions | Min | Typ[1] | Max | Unit |
|--------------------|------------------|----------------------------------|-----|--------|-----|------|
| t _{su(H)} | set-up time HIGH | nDn to nLE; see Fig. 7 | | | | |
| | | V _{CC} = 2.7 V | 1.0 | - | - | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.5 | 0.1 | - | ns |
| t _{su(L)} | set-up time LOW | nDn to nLE; see Fig. 7 | | | | |
| | | V _{CC} = 2.7 V | 2.0 | - | - | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 2.0 | 0.2 | - | ns |
| t _{h(H)} | hold time HIGH | nDn to nLE; see Fig. 7 | | | | |
| | | V _{CC} = 2.7 V | 1.0 | - | - | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 0 | - | ns |
| t _{h(L)} | hold time LOW | nDn to nLE; see Fig. 7 | | | | |
| | | V _{CC} = 2.7 V | 2.0 | - | - | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.5 | 0 | - | ns |
| t _{WH} | pulse width HIGH | nLE; see Fig. 5 | | | | |
| | | V _{CC} = 2.7 V | 1.5 | - | - | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.5 | 0.5 | - | ns |

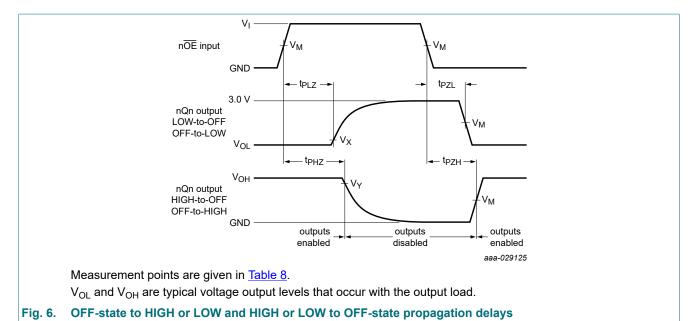
^[1] Typical values are at V_{CC} = 3.3 V and T_{amb} = 25 °C.

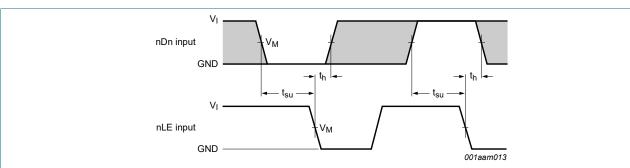
10.1. Waveforms and test circuit



Product data sheet

3.3 V 16-bit transparent D-type latch; 3-state





Measurement points are given in Table 8.

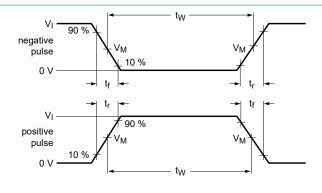
The shaded areas indicate when the input is permitted to change for predictable output performance.

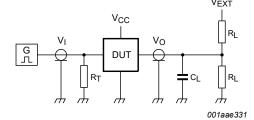
Fig. 7. Input (nDn) to output (nLE) data set-up and hold times

Table 8. Measurement points

| Input | | Output | | | |
|----------------|----------------|----------------|-------------------------|-------------------------|--|
| V _I | V _M | V _M | V _X | V _Y | |
| 2.7 V | 1.5 V | 1.5 V | V _{OL} + 0.3 V | V _{OH} - 0.3 V | |

3.3 V 16-bit transparent D-type latch; 3-state





Test data is given in Table 9.

Definitions test circuit:

R_L = Load resistance;

C_L = Load capacitance including jig and probe capacitance;

R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator;

 V_{EXT} = Test voltage for switching times.

Fig. 8. Test circuit for measuring switching times

Table 9. Test data

| Input | | | Load | | V _{EXT} | | | |
|----------------|----------|----------------|---------------------------------|-------|------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| V _I | fi | t _W | t _r , t _f | CL | R_L | t _{PHZ} , t _{PZH} | t _{PLZ} , t _{PZL} | t _{PLH} , t _{PHL} |
| 2.7 V | ≤ 10 MHz | 500 ns | ≤ 2.5 ns | 50 pF | 500 Ω | GND | 6 V | open |

3.3 V 16-bit transparent D-type latch; 3-state

11. Package outline

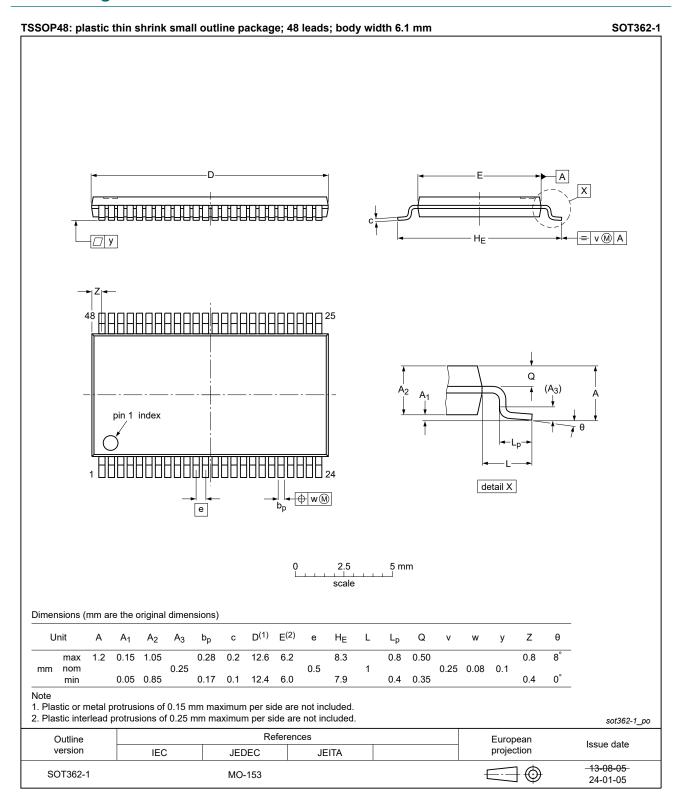


Fig. 9. Package outline SOT362-1 (TSSOP48)

3.3 V 16-bit transparent D-type latch; 3-state

12. Abbreviations

Table 10. Abbreviations

| Acronym | Description |
|---------|---|
| ANSI | American National Standards Institute |
| BiCMOS | Bipolar Complementary Metal Oxide Semiconductor |
| CDM | Charged Device Model |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| ESDA | ElectroStatic Discharge Association |
| НВМ | Human Body Model |
| JEDEC | Joint Electron Device Engineering Council |
| TTL | Transistor-Transistor Logic |

13. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-----------------|---|-----------------------|---------------|-----------------|
| 74LVT16373A v.6 | 20240708 | Product data sheet | - | 74LVT16373A v.5 |
| Modifications: | <u>Section 2</u> : ESD specification updated according to the latest JEDEC standard. | | | |
| 74LVT16373A v.5 | 20240227 | Product data sheet | - | 74LVT16373A v.4 |
| Modifications: | Fig. 9: Updated package outline drawing SOT362-1 (TSSOP48). | | | |
| 74LVT16373A v.4 | 20210803 | Product data sheet | - | 74LVT16373A v.3 |
| Modifications: | Section 1 and Section 2 updated. Type number 74LVT16373ADL (SOT370-1/SSOP48) removed. | | | |
| 74LVT16373A v.3 | 20181001 | Product data sheet | - | 74LVT16373A v.2 |
| Modifications: | The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. | | | |
| 74LVT16373A v.2 | 19980219 | Product specification | - | 74LVT16373A v.1 |
| 74LVT16373A v.1 | 19941215 | Product specification | - | - |

3.3 V 16-bit transparent D-type latch; 3-state

14. Legal information

Data sheet status

| Document status [1][2] | Product status [3] | Definition |
|--------------------------------|-----------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
| Product [short] data sheet | Production | This document contains the product specification. |

- 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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