16-bit edge-triggered D-type flip-flop; 5 V tolerant; 3-stateRev. 13 — 27 September 2021Product data sheet

1. General description

The 74LVC16374A; 74LVCH16374A is a 16-bit edge-triggered D-type flip-flop with 3-state outputs. The device can be used as two 8-bit flip-flops or one 16-bit flip-flop. The device features two clocks (1CP and 2CP) and two output enables (1 \overline{OE} and 2 \overline{OE}), each controlling 8-bits. The flip-flops will store the state of their individual D-inputs that meet the set-up and hold time requirements on the LOW-to-HIGH clock (nCP) transition. 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 flip-flops. 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 environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

2. Features and benefits

- Overvoltage tolerant inputs to 5.5 V
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power dissipation
- Multibyte flow-through standard pinout architecture
- Low inductance multiple supply pins for minimum noise and ground bounce
- Direct interface with TTL levels
- All data inputs have bus hold (74LVCH16374A only)
- High-impedance outputs when V_{CC} = 0 V
- I_{OFF} circuitry provides partial Power-down mode operation
- 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

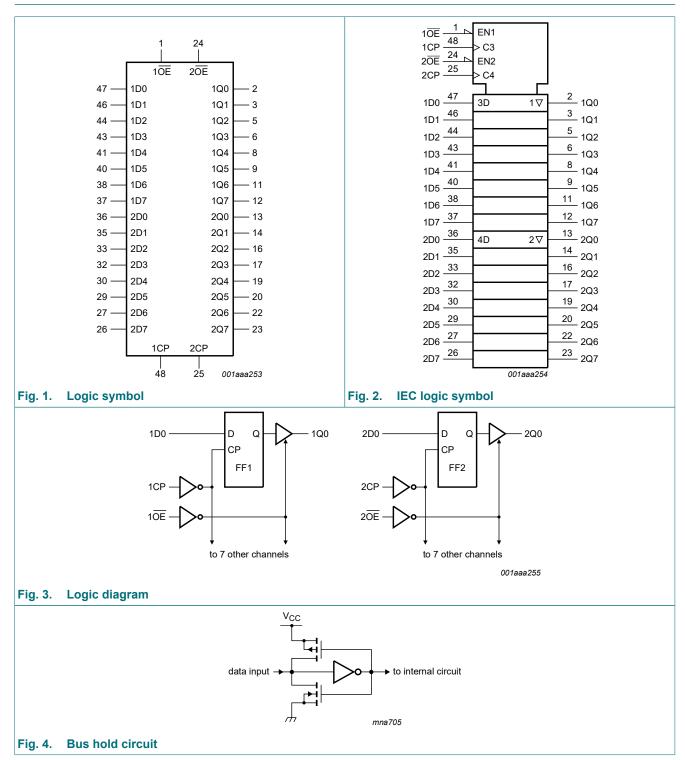
3. Ordering information

Table 1. Ordering information

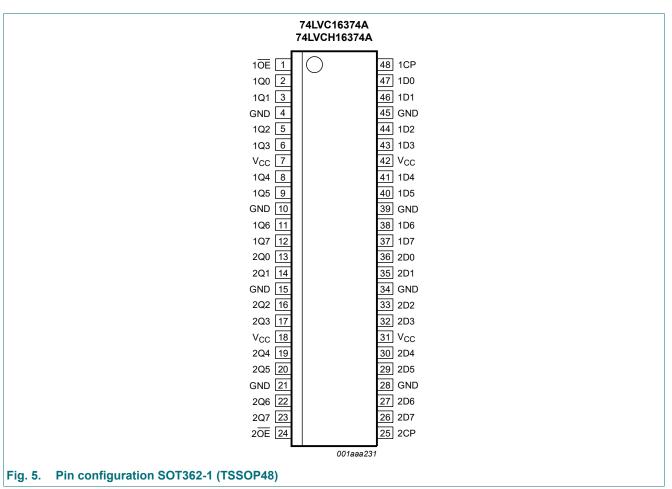
| Type number | Package | | | | | |
|-----------------|-------------------|---------|--|----------|--|--|
| | Temperature range | Name | Description | Version | | |
| 74LVC16374ADGG | -40 °C to +125 °C | TSSOP48 | plastic thin shrink small outline package; | SOT362-1 | | |
| 74LVCH16374ADGG | | | 48 leads; body width 6.1 mm | | | |

nexperia

4. Functional diagram



5. Pinning information



5.1. Pinning

5.2. Pin description

Table 2. Pin description

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

6. Functional description

Table 3. Function selection

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

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

Z = high-impedance OFF-state; \uparrow = LOW-to-HIGH transition.

| Operating mode | Input | | | Internal flip-flop | Output nQ0 to nQ7 | |
|-----------------------------------|-------------------|-----|-----|--------------------|-------------------|--|
| | n <mark>OE</mark> | nCP | nDn | | | |
| Load and read register | L | 1 | I | L | L | |
| | L | 1 | h | Н | Н | |
| Load register and disable outputs | Н | 1 | I | L | Z | |
| | Н | 1 | h | Н | 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 | +6.5 | V |
| I _{IK} | input clamping current | V ₁ < 0 V | -50 | - | mA |
| VI | input voltage | [1] | -0.5 | +6.5 | V |
| Ι _{ΟΚ} | output clamping current | $V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V | - | ±50 | mA |
| Vo | output voltage | output HIGH-or LOW-state [2] | -0.5 | V _{CC} + 0.5 | V |
| | | output 3-state [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.

[3] For SOT362-1 (TSSOP48) packages: Ptot derates linearly with 12.2 mW/K above 109 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-------------------------------------|-----------------------------------|------|-----|-----------------|------|
| V _{CC} | supply voltage | | 1.65 | - | 3.6 | V |
| | | functional | 1.2 | - | - | V |
| VI | input voltage | | 0 | - | 5.5 | V |
| Vo | output voltage | active mode | 0 | - | V _{CC} | V |
| | | power-down mode; V_{CC} = 0 V | 0 | - | 5.5 | V |
| T _{amb} | ambient temperature | | -40 | - | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 1.65 V to 2.7 V | 0 | - | 20 | ns/V |
| | | V _{CC} = 2.7 V to 3.6 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 | Conditions | | -40 | °C to +8 | 5 °C | -40 °C to +125 °C | | Unit |
|------------------|------------------------------|--|---------|-----------------------|-----------------|--------------|-----------------------|--------------|------|
| | | | | Min | Typ[1] | Мах | Min | Мах | |
| VIH | HIGH-level | V _{CC} = 1.2 V | | 1.08 | - | - | 1.08 | - | V |
| | input voltage | V _{CC} = 1.65 V to 1.95 V | | 0.65V _{CC} | - | - | 0.65V _{CC} | - | V |
| | | V _{CC} = 2.3 V to 2.7 V | | 1.7 | - | - | 1.7 | - | V |
| | | V _{CC} = 2.7 V to 3.6 V | | 2.0 | - | - | 2.0 | - | V |
| V _{IL} | LOW-level input | V _{CC} = 1.2 V | | - | - | 0.12 | - | 0.12 | V |
| | voltage | V _{CC} = 1.65 V to 1.95 V | | - | - | $0.35V_{CC}$ | - | $0.35V_{CC}$ | V |
| | | V _{CC} = 2.3 V to 2.7 V | | - | - | 0.7 | - | 0.7 | V |
| | | V _{CC} = 2.7 V to 3.6 V | | - | - | 0.8 | - | 0.8 | V |
| V _{OH} | HIGH-level | $V_{I} = V_{IH} \text{ or } V_{IL}$ | | | | | | | |
| | output voltage | I _O = -100 μA; V _{CC} = 1.65 V to 3.6 V | | V _{CC} - 0.2 | V _{CC} | - | V _{CC} - 0.3 | - | V |
| | | I _O = -4 mA; V _{CC} = 1.65 V | | 1.2 | - | - | 1.05 | - | V |
| | | I _O = -8 mA; V _{CC} = 2.3 V | | 1.8 | - | - | 1.65 | - | V |
| | | I _O = -12 mA; V _{CC} = 2.7 V | | 2.2 | - | - | 2.05 | - | V |
| | | I _O = -18 mA; V _{CC} = 3.0 V | | 2.4 | - | - | 2.25 | - | V |
| | | I _O = -24 mA; V _{CC} = 3.0 V | | 2.2 | - | - | 2.0 | - | V |
| V _{OL} | LOW-level | V _I = V _{IH} or V _{IL} | | | | | | | |
| | output voltage | I _O = 100 μA; V _{CC} = 1.65 V to 3.6 V | | - | 0 | 0.2 | - | 0.3 | V |
| | | I _O = 4 mA; V _{CC} = 1.65 V | | - | - | 0.45 | - | 0.65 | V |
| | | I _O = 8 mA; V _{CC} = 2.3 V | | - | - | 0.6 | - | 0.8 | V |
| | | I _O = 12 mA; V _{CC} = 2.7 V | | - | - | 0.4 | - | 0.6 | V |
| | | I _O = 24 mA; V _{CC} = 3.0 V | | - | - | 0.55 | - | 0.8 | V |
| l _l | input leakage current | V _{CC} = 3.6 V; V _I = 5.5 V or GND | [2] | - | ±0.1 | ±5 | - | ±20 | μA |
| I _{OZ} | OFF-state output current | $V_I = V_{IH} \text{ or } V_{IL}; V_{CC} = 3.6 \text{ V};$ $V_O = 5.5 \text{ V or GND}$ | [2] | - | ±0.1 | ±5 | - | ±20 | μA |
| I _{OFF} | power-off leakage current | V_{CC} = 0 V; V _I or V _O = 5.5 V | | - | ±0.1 | ±10 | - | ±20 | μA |
| I _{CC} | supply current | V_{CC} = 3.6 V; V_{I} = V_{CC} or GND; I_{O} = 0 A | | - | 0.1 | 20 | - | 80 | μA |
| ∆I _{CC} | additional supply current | per input pin; $V_{CC} = 2.7 V \text{ to } 3.6 V;$ $V_{I} = V_{CC} - 0.6 V; I_{O} = 0 A$ | | - | 5 | 500 | - | 5000 | μA |
| CI | input capacitance | V_{CC} = 0 V to 3.6 V; V _I = GND to V _{CC} | | - | 5.0 | - | - | - | pF |
| I _{BHL} | bus hold LOW | V _{CC} = 1.65; V _I = 0.58 V | [3] [4] | 10 | - | - | 10 | - | μA |
| | current | V _{CC} = 2.3; V _I = 0.7 V | | 30 | - | - | 25 | - | μA |
| | | $V_{CC} = 3.0; V_1 = 0.8 V$ | | 75 | _ | - | 60 | _ | μA |

16-bit edge-triggered D-type flip-flop; 5 V tolerant; 3-state

| Symbol | Parameter | Conditions | -40 | °C to +8 | 5 °C | -40 °C to | • +125 ℃ | Unit |
|-------------------|----------------------|---|------|----------|------|-----------|----------|------|
| | | | Min | Typ[1] | Max | Min | Max | |
| I _{BHH} | bus hold HIGH | V _{CC} = 1.65; V _I = 1.07 V [3] [4] | -10 | - | - | -10 | - | μA |
| | current | V _{CC} = 2.3; V _I = 1.7 V | -30 | - | - | -25 | - | μA |
| | | V _{CC} = 3.0; V _I = 2.0 V | -75 | - | - | -60 | - | μA |
| I _{BHLO} | bus hold LOW | V _{CC} = 1.95 V [3] [5] | 200 | - | - | 200 | - | μA |
| | overdrive current | V _{CC} = 2.7 V | 300 | - | - | 300 | - | μA |
| | Guirent | V _{CC} = 3.6 V | 500 | - | - | 500 | - | μA |
| I _{BHHO} | bus hold HIGH | V _{CC} = 1.95 V [3] [5] | -200 | - | - | -200 | - | μA |
| | overdrive current | V _{CC} = 2.7 V | -300 | - | - | -300 | - | μA |
| | Guirent | V _{CC} = 3.6 V | -500 | - | - | -500 | - | μA |

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

[2] The bus hold circuit is switched off when $V_I > V_{CC}$ allowing 5.5 V on the input pin.

[3] Valid for data inputs (74LVCH16374A) only; control inputs do not have a bus hold circuit.

[4] The specified sustaining current at the data inputs holds the input below the specified V_1 level.

[5] The specified overdrive current at the data input forces the data input to the opposite logic input state.

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 9.

| Symbol | Parameter | Conditions | -4 | 0 °C to +8 | 5 °C | -40 °C te | o +125 °C | Unit |
|------------------|--------------|------------------------------------|-----|------------|------|-----------|-----------|------|
| | | | Min | Typ[1] | Max | Min | Max | |
| t _{pd} | propagation | nCP to nQn; see <u>Fig. 6</u> | 2] | | | | | |
| | delay | V _{CC} = 1.2 V | - | 14 | - | - | - | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 2.1 | 6.9 | 13.5 | 2.1 | 15.6 | ns |
| | | V_{CC} = 2.3 V to 2.7 V | 1.5 | 3.7 | 6.7 | 1.5 | 7.7 | ns |
| | | V _{CC} = 2.7 V | 1.5 | 3.4 | 6.0 | 1.5 | 7.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.5 | 3.1 | 5.4 | 1.5 | 7.0 | ns |
| t _{en} | enable time | nOE to nQn; see <u>Fig. 7</u> | 2] | | | | | |
| | | V _{CC} = 1.2 V | - | 20 | - | - | - | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.5 | 5.9 | 13.1 | 1.5 | 15.1 | ns |
| | | V_{CC} = 2.3 V to 2.7 V | 1.5 | 3.4 | 6.9 | 1.5 | 8.0 | ns |
| | | V _{CC} = 2.7 V | 1.5 | 3.6 | 6.0 | 1.5 | 7.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.0 | 2.7 | 5.2 | 1.0 | 6.5 | ns |
| t _{dis} | disable time | nOE to nQn; see <u>Fig. 7</u> | 2] | | | | | |
| | | V _{CC} = 1.2 V | - | 12 | - | - | - | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 2.8 | 4.6 | 9.1 | 2.8 | 10.5 | ns |
| | | V_{CC} = 2.3 V to 2.7 V | 1.0 | 2.5 | 4.9 | 1.0 | 5.7 | ns |
| | | V _{CC} = 2.7 V | 1.5 | 3.4 | 5.1 | 1.5 | 6.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.5 | 3.1 | 4.9 | 1.5 | 6.5 | ns |
| t _W | pulse width | nCP HIGH; see Fig. 6 | | | | | | |
| | | V _{CC} = 1.65 V to 1.95 V | 5.0 | - | - | 5.0 | - | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 4.0 | - | - | 4.0 | - | ns |
| | | V _{CC} = 2.7 V | 3.0 | - | - | 3.0 | - | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 3.0 | 1.5 | - | 3.0 | - | ns |

t_h

74LVC16374A; 74LVCH16374A

Conditions Symbol Parameter -40 °C to +85 °C -40 °C to +125 °C Unit Typ[1] Min Max Min Max nDn to nCP; see Fig. 8 t_{su} set-up time V_{CC} = 1.65 V to 1.95 V 4.0 4.0 _ _ _ ns V_{CC} = 2.3 V to 2.7 V 3.0 3.0 _ _ _ ns $V_{CC} = 2.7 V$ 1.9 1.9 ns --_ V_{CC} = 3.0 V to 3.6 V 1.9 0.3 _ 1.9 ns hold time nDn to nCP; see Fig. 8 V_{CC} = 1.65 V to 1.95 V 3.0 3.0 ns --- V_{CC} = 2.3 V to 2.7 V 2.5 2.5 ns _ _ -V_{CC} = 2.7 V 1.1 1.1 _ ns _ _ V_{CC} = 3.0 V to 3.6 V +1.5-0.3 _ 1.5 _ ns maximum see Fig. 6 f_{max} frequency V_{CC} = 1.65 V to 1.95 V 100 80 ns V_{CC} = 2.3 V to 2.7 V 125 100 ns _ _ _ $V_{CC} = 2.7 V$ 150 120 MHz _ -- V_{CC} = 3.0 V to 3.6 V 150 300 120 MHz _ -V_{CC} = 3.0 V to 3.6 V 1.0 1.5 output skew time [3] -_ _ ns t_{sk(o)} per input; $V_I = GND$ to V_{CC} CPD power [4] dissipation V_{CC} = 1.65 V to 1.95 V 14.1 pF ---capacitance V_{CC} = 2.3 V to 2.7 V 16.4 pF _ _ _ V_{CC} = 3.0 V to 3.6 V 18.5 _ _ -_ pF

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

 t_{pd} is the same as t_{PLH} and t_{PHL} ; t_{en} is the same as t_{PZL} and t_{PZH} ; t_{dis} is the same as t_{PLZ} and t_{PHZ} . [2]

[3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

 C_{PD} is used to determine the dynamic power dissipation (P_D in μW). [4]

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

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

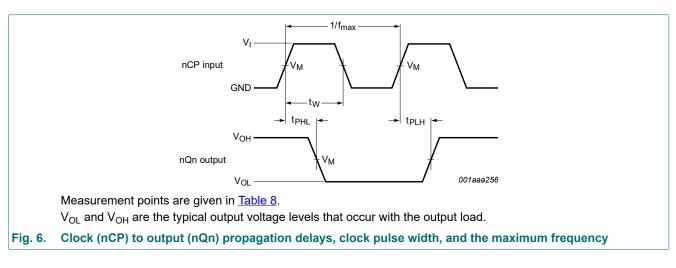
C_I = output load capacitance in pF

V_{CC} = supply voltage in Volts

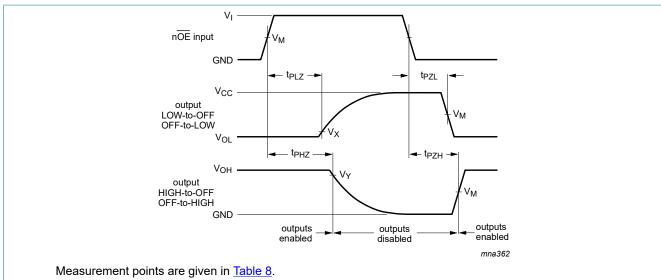
N = number of inputs switching

 $\Sigma(C_{L} \times V_{CC}^{2} \times f_{o}) = \text{sum of the outputs}$

10.1. Waveforms and test circuit

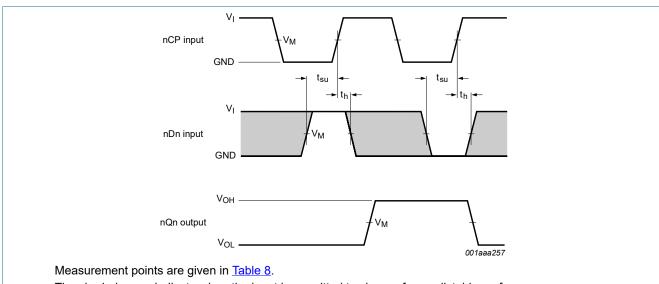


16-bit edge-triggered D-type flip-flop; 5 V tolerant; 3-state



 V_{OL} and V_{OH} are the typical output voltage levels that occur with the output load.

Fig. 7. 3-state enable and disable times



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

 V_{OL} and V_{OH} are the typical output voltage levels that occur with the output load.

Fig. 8. Data set-up and hold times for the nDn input to the nCP input

Table 8. Measurement points

| Supply voltage | Input | | Output | Output | | | | |
|------------------|-----------------|-----------------------|-----------------------|--------------------------|--------------------------|--|--|--|
| V _{cc} | VI | V _M | V _M | V _X | V _Y | | | |
| 1.2 V | V _{CC} | 0.5 × V _{CC} | $0.5 \times V_{CC}$ | V _{OL} + 0.15 V | V _{OH} - 0.15 V | | | |
| 1.65 V to 1.95 V | V _{CC} | 0.5 × V _{CC} | $0.5 \times V_{CC}$ | V _{OL} + 0.15 V | V _{OH} - 0.15 V | | | |
| 2.3 V to 2.7 V | V _{CC} | $0.5 \times V_{CC}$ | 0.5 × V _{CC} | V _{OL} + 0.15 V | V _{OH} - 0.15 V | | | |
| 2.7 V | 2.7 V | 1.5 V | 1.5 V | V _{OL} + 0.3 V | V _{OH} - 0.3 V | | | |
| 3.0 V to 3.6 V | 2.7 V | 1.5 V | 1.5 V | V _{OL} + 0.3 V | V _{OH} - 0.3 V | | | |

16-bit edge-triggered D-type flip-flop; 5 V tolerant; 3-state

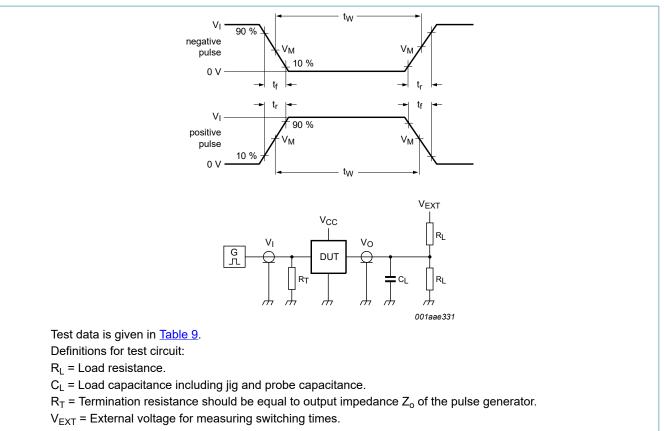


Fig. 9. Test circuit for measuring switching times

Table 9. Test data

| Supply voltage | Input | Input | | 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 × V _{CC} | GND | |
| 1.65 V to 1.95 V | V _{CC} | ≤ 2 ns | 30 pF | 1 kΩ | open | $2 \times V_{CC}$ | GND | |
| 2.3 V to 2.7 V | V _{CC} | ≤ 2 ns | 30 pF | 500 Ω | open | $2 \times V_{CC}$ | GND | |
| 2.7 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open | 2 × V _{CC} | GND | |
| 3.0 V to 3.6 V | 2.7 V | ≤ 2.5 ns | 50 pF | 500 Ω | open | $2 \times V_{CC}$ | GND | |

16-bit edge-triggered D-type flip-flop; 5 V tolerant; 3-state

11. Package outline

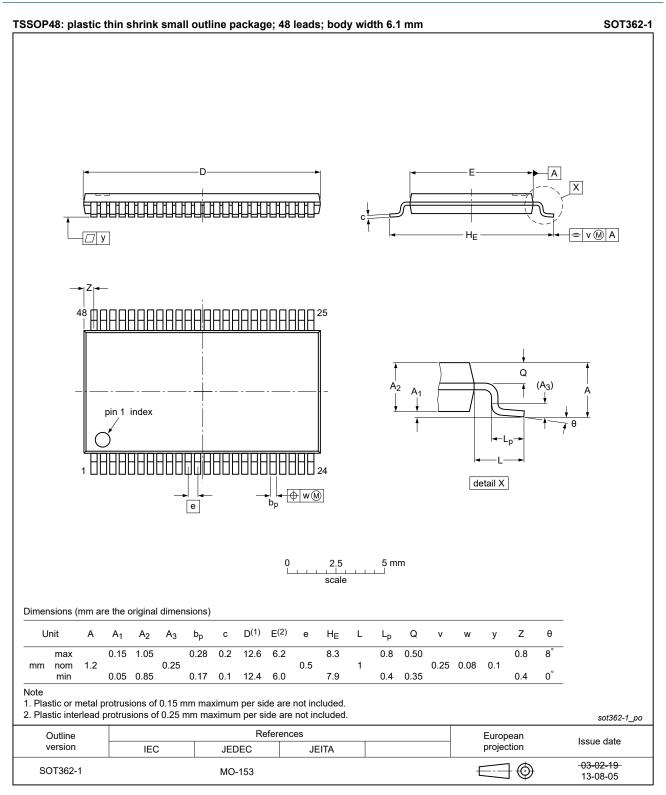


Fig. 10. Package outline SOT362-1 (TSSOP48)

74LVC_LVCH16374A

12. Abbreviations

| Acronym | Description |
|---------|---|
| CDM | Charged Device Model |
| CMOS | Complementary Metal Oxide Semiconductor |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| НВМ | Human Body Model |
| MM | Machine Model |
| TTL | Transistor-Transistor Logic |

13. Revision history

Table 11. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|----------------------------------|---|---|-----------------------------------|---|
| 74LVC_LVCH16374A v.13 | 20210927 | Product data sheet | - | 74LVC_LVCH16374A v.12 |
| Modifications: | Type number | nd <u>Section 2</u> updated. er 74LVC16374ADL (SOT3 Derating values for P _{tot} tota | , | |
| 74LVC_LVCH16374A v.12 | 20181120 | Product data sheet | - | 74LVC_LVCH16374A v.11 |
| Modifications: | guidelines of Legal texts Type number | of this data sheet has beer of Nexperia. have been adapted to the ers 74LVCH16374ADL (SC 874ABX (SOT1134-1/HXQI | new company nar 0T370-1/SSOP48 | ne where appropriate.), 74LVC16374ABX and |
| 74LVC_LVCH16374A v.11 | 20130116 | Product data sheet | - | 74LVC_LVCH16374A v.10 |
| Modifications: | | echnical text changes and evision history correction | corrections | |
| 74LVC_LVCH16374A v.10 | 20120301 | Product data sheet | - | 74LVC_LVCH16374A v.9 |
| 74LVC_LVCH16374A v.9 | 20111219 | Product data sheet | - | 74LVC_LVCH16374A v.8 |
| 74LVC_LVCH16374A v.8 | 20110621 | Product data sheet | - | 74LVC_LVCH16374A v.7 |
| 74LVC_LVCH16374A v.7 | 20100323 | Product data sheet | - | 74LVC_LVCH16374A v.6 |
| 74LVC_LVCH16374A v.6 | 20090212 | Product data sheet | - | 74LVC_LVCH16374A v.5 |
| 74LVC_LVCH16374A v.5 | 20031212 | Product specification | - | 74LVC_H16374A v.4 |
| 74LVC_H16374A v.4 | 19980317 | Product specification | - | 74LVC16374A_ 74LVCH16374A v.3 |
| 74LVC16374A_ 74LVCH16374A v.3 | 19980317 | Product specification | - | 74LVC16374A v.2 |
| 74LVC16374A v.2 | 19970822 | Product specification | - | 74LVC16374A v.1 |
| 74LVC16374A v.1 | - | - | - | - |

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. |
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| Product [short] data sheet | Production | This document contains the product specification. |

 Please consult the most recently issued document before initiating or completing a design.

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