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Team Nexperia

74LVC16373A; 74LVCH16373A

16-bit D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

Rev. 8 — 6 January 2014

Product data sheet

1. General description

The 74LVC16373A and 74LVCH16373A are 16-bit D-type transparent latches featuring separate D-type inputs with bus hold (74LVCH16373A only) for each latch and 3-state outputs for bus-oriented applications. One Latch Enable (LE) input and one Output Enable (OE) are provided for each octal. Inputs can be driven from either 3.3 V or 5 V devices. When disabled, up to 5.5 V can be applied to the outputs. These features allow the use of these devices in mixed 3.3 V and 5 V applications.

The device consists of two sections of eight D-type transparent latches with 3-state true outputs. When LE is HIGH, data at the Dn inputs enter the latches. In this condition, the latches are transparent, that is, the latch outputs change each time its corresponding D-input changes. The latches store the information that was present at the D-inputs one set-up time (t_{su}) preceding the HIGH-to-LOW transition of LE. When \overline{OE} is LOW, the contents of the eight latches are available at the outputs. When \overline{OE} is HIGH, the outputs go to the high impedance OFF-state. Operation of the \overline{OE} input does not affect the state of the latches. Bus hold on the data inputs eliminates the need for external pull-up resistors to hold unused inputs.

2. Features and benefits

- 5 V tolerant inputs/outputs for interfacing with 5 V logic
- Wide supply voltage range from 1.2 V to 3.6 V
- CMOS low power consumption
- Multibyte flow-through standard pinout architecture
- Multiple low inductance supply pins for minimum noise and ground bounce
- Direct interface with TTL levels
- All data inputs have bus hold (74LVCH16373A only)
- High-impedance when V_{CC} = 0 V
- 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

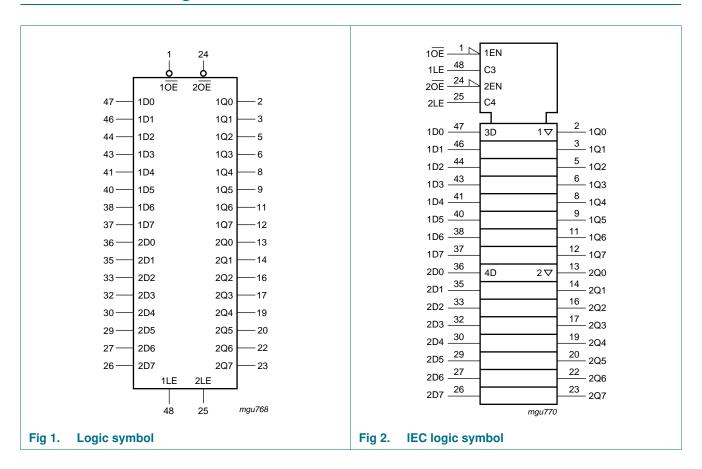


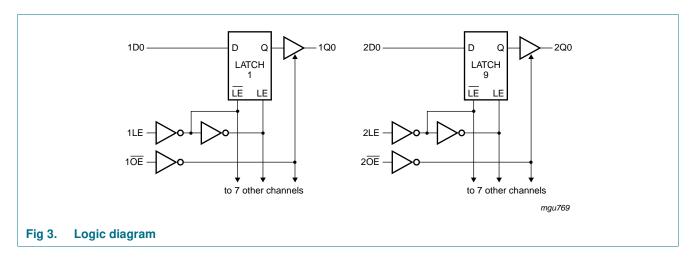
3. Ordering information

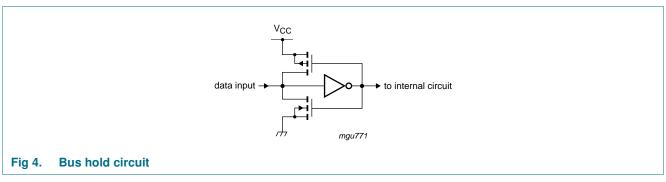
Table 1. Ordering information

Type number	Package	Package										
	Temperature range	Name	Description	Version								
74LVC16373ADGG	–40 °C to +125 °C	TSSOP48	plastic thin shrink small outline package;	SOT362-1								
74LVCH16373ADGG			48 leads; body width 6.1 mm									
74LVC16373ADL	–40 °C to +125 °C	SSOP48	plastic shrink small outline package; 48 leads;	SOT370-1								
74LVCH16373ADL			body width 7.5 mm									

4. Functional diagram

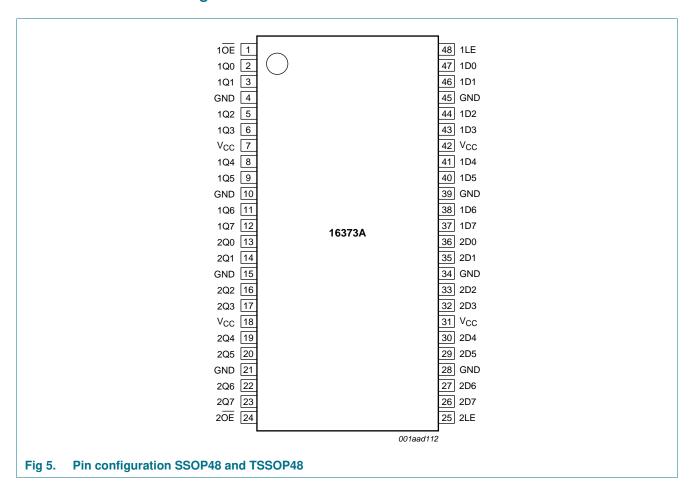






5. Pinning information

5.1 Pinning



5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
1 OE	1	output enable input (active LOW)
2 OE	24	output enable input (active LOW)
1LE	48	latch enable input (active HIGH)
2LE	25	latch enable input (active HIGH)
GND	4, 10, 15, 21, 28, 34, 39, 45	ground (0 V)
V _{CC}	7, 18, 31, 42	supply voltage
1Q[0:7]	2, 3, 5, 6, 8, 9, 11, 12	data output
2Q[0:7]	13, 14, 16, 17, 19, 20, 22, 23	data output
1D[0:7]	47, 46, 44, 43, 41, 40, 38, 37	data input
2D[0:7]	36, 35, 33, 32, 30, 29, 27, 26	data input

6. Functional description

Table 3. Function table

Per section of eight bits 11.

Operating modes	Input		Internal latch	Output	
	nOE	nLE	nDn		nQ0 to nQ7
Enable and read register	L	Н	L	L	L
(transparent mode)	L	Н	Н	Н	Н
Latch and read register	L	L	I	L	L
	L	L	h	Н	Н
Latch register and disable outputs	Н	L	I	L	Z
	Н	L	h	Н	Z

^[1] H = HIGH voltage level

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	$V_O > V_{CC}$ or $V_O < 0$	-	±50	mA
V _O	output voltage	output HIGH or LOW state	<u>[2]</u> -0.5	$V_{CC} + 0.5$	V
		output 3-state	<u>[2]</u> -0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$	<u>[3]</u> _	500	mW

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

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

Z = high-impedance OFF-state

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

^[3] Above 60 °C, the value of P_{tot} derates linearly with 5.5 mW/K.

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	-	3.6	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	0	-	V_{CC}	V
		output 3-state	0	-	5.5	V
T _{amb}	ambient temperature	in free air	-40	-	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	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	Conditions	-40	°C to +8	35 °C	-40 °C 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 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
V_{IL}	LOW-level	V _{CC} = 1.2 V	-	-	0.12	-	0.12	V
	input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	-	-	0.7	-	0.7	٧
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	٧
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = -100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	$V_{CC}-0.2$	-	-	$V_{CC}-0.3$	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	٧
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	٧
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	٧
		$I_{O} = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	2.25	-	٧
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	٧
V _{OL}	LOW-level	$V_I = V_{IH}$ or V_{IL}						
	output voltage	$I_O = 100 \mu A;$ $V_{CC} = 1.65 \text{ V to } 3.6 \text{ V}$	-	-	0.2	-	0.3	V
		$I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.65	٧
		$I_O = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	8.0	٧
		$I_O = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	٧
		$I_O = 24 \text{ mA}$; $V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	8.0	٧
input leakage current		V _{CC} = 3.6 V; V _I = 5.5 V or GND[2]	-	±0.1	±5	-	±20	μΑ

74LVC_LVCH16373A

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Table 6. Static characteristics ... continued

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

Symbol	Parameter	Conditions	-40	°C to +85	S °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
l _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_{CC} = 3.6$ V; $V_O = 5.5$ V or GND[2]	-	±0.1	±5	-	±20	μΑ
I _{OFF}	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	±0.1	±10	-	±20	μΑ
I _{CC}	supply current	V_{CC} = 3.6 V; V_I = V_{CC} or GND; I_O = 0 A	-	0.1	20	-	80	μА
Δl _{CC}	additional supply current	per input pin; V_{CC} = 2.7 V to 3.6 V; V_{I} = V_{CC} - 0.6 V; I_{O} = 0 A	-	5	500	-	5000	μΑ
Cı	input capacitance	$V_{CC} = 0 \text{ V to } 3.6 \text{ V};$ $V_{I} = \text{GND to } V_{CC}$	-	5.0	-	-	-	pF
I _{BHL}	bus hold	$V_{CC} = 1.65; V_I = 0.58 V_{3[4]}$	10	-	-	10	-	μΑ
	LOW current	$V_{CC} = 2.3; V_I = 0.7 V$	30	-	-	25	-	μΑ
		$V_{CC} = 3.0; V_I = 0.8 \text{ V}$	75	-	-	60	-	μΑ
I _{BHH}	bus hold	$V_{CC} = 1.65; V_I = 1.07 V_{3[4]}$	-10	-	-	-10	-	μΑ
	HIGH current	$V_{CC} = 2.3; V_I = 1.7 V$	-30	-	-	-25	-	μΑ
		$V_{CC} = 3.0$; $V_I = 2.0 \text{ V}$	-75	-	-	-60	-	μΑ
I _{BHLO}	bus hold	$V_{CC} = 1.95 V_{3[5]}$	200	-	-	200	-	μΑ
	LOW	V _{CC} = 2.7 V	300	-	-	300	-	μΑ
	overdrive current	V _{CC} = 3.6 V	500	-	-	500	-	μА
I _{BHHO}	bus hold	$V_{CC} = 1.95 V_{3}^{3}$	-200	-	-	-200	-	μΑ
	HIGH	V _{CC} = 2.7 V	-300	-	-	-300	-	μΑ
	overdrive current	V _{CC} = 3.6 V	-500	-	-	-500	-	μΑ

^[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 $V_1 > V_{CC}$ allowing 5.5 V on the input pin.

^[3] Valid for data inputs (74LVCH16373A) 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 Figure 10.

Symbol	Parameter	Conditions		T _{amb} = -	-40 °C to	+85 °C	–40 °C to	+125 °C	Unit
				Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation	Dn to Qn; see Figure 6	[2]						
	delay	$V_{CC} = 1.2 \text{ V}$		-	12	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.5	5.4	11.4	1.5	13.2	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	2.9	5.7	1.0	6.6	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	2.9	4.9	1.5	6.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	2.4	4.4	1.0	5.5	ns
		LE to Qn; see Figure 7							
		$V_{CC} = 1.2 \text{ V}$		-	14	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		2.0	6.4	12.4	2.0	14.4	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.5	3.4	6.1	1.5	7.1	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.0	5.3	1.5	7.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	2.9	4.8	1.5	6.0	ns
t _{en}	enable time	OE to Qn; see Figure 8	[2]						
		$V_{CC} = 1.2 \text{ V}$		-	18	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.5	5.5	12.4	1.5	14.3	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	3.1	6.6	1.0	7.6	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.3	5.7	1.5	7.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	2.5	4.9	1.0	6.5	ns
t_{dis}	disable time	OE to Qn; see Figure 8	[2]						
		$V_{CC} = 1.2 \text{ V}$		-	11	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		2.8	4.5	9.1	2.8	10.5	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	2.5	5.1	1.0	6.0	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.3	6.3	1.5	8.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	3.1	5.4	1.5	7.0	ns
t_{W}	pulse width	LE HIGH; see Figure 7							
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		5.0	-	-	5.0	-	ns
		V_{CC} = 2.3 V to 2.7 V		4.0	-	-	4.0	-	ns
		$V_{CC} = 2.7 \text{ V}$		3.0	-	-	3.0	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		3.0	2.0	-	3.0	-	ns
t_{su}	set-up time	Dn to LE; see Figure 9							
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		3.0	-	-	3.0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.5	-	-	2.5	-	ns
		$V_{CC} = 2.7 V$		2.0	-	-	2.0	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		2.0	1.0	-	2.0	-	ns

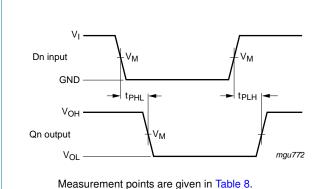
Dynamic characteristics ...continued Table 7.

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 10.

Symbol	Parameter	Conditions		T _{amb} =	–40 °C to	+85 °C	–40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max		
t _h	hold time	Dn to LE; see Figure 9		,			•		
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		2.5	-	-	2.5	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.0	-	-	2.0	-	ns
		$V_{CC} = 2.7 \text{ V}$		0.9	-	-	0.9	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		+0.9	-1.0	-	+0.9	-	ns
t _{sk(o)}	output skew time	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	[3]	-	-	1.0	-	1.5	ns
C_{PD}	power	per input; $V_I = GND$ to V_{CC}	[4]						
	dissipation capacitance	V _{CC} = 1.65 V to 1.95 V		-	10.8	-	-	-	pF
	capacitance	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	13.0	-	-	-	pF
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	15.0	-	-	-	pF

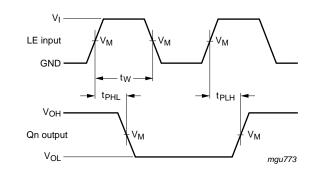
- [1] Typical values are measured at $T_{amb} = 25$ °C and $V_{CC} = 1.2$ V, 1.8 V, 2.5 V, 2.7 V and 3.3 V respectively.
- t_{pd} is the same as t_{PLH} and t_{PHL}.
 - ten is the same as tPZL and tPZH.
 - t_{dis} is the same as t_{PLZ} and t_{PHZ} .
- [3] Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.
- [4] 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_0 = output frequency in MHz
 - C_L = output load capacitance in pF
 - V_{CC} = supply voltage in Volts
 - N = number of inputs switching
 - $\Sigma(C_L \times V_{CC}^2 \times f_o) = \text{sum of the outputs}$

11. Waveforms



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

Input (Dn) to output (Qn) propagation delays Fig 6.

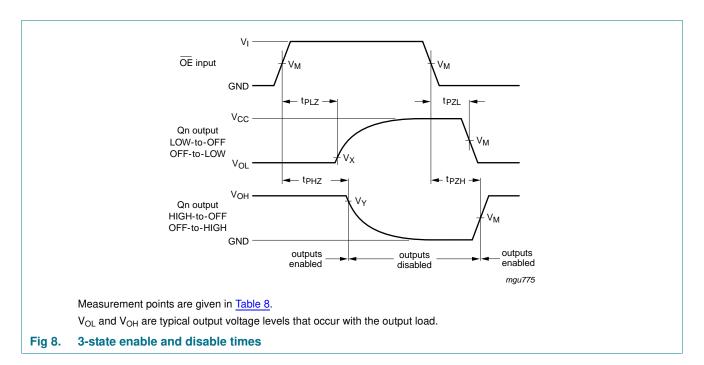


Measurement points are given in Table 8.

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

Latch enable input (LE) pulse width, and the Fig 7. latch enable input to output (Qn) propagation delays

74LVC LVCH16373A



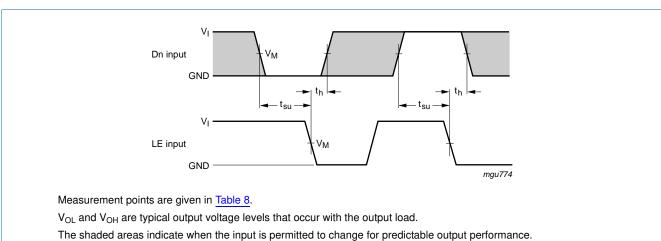
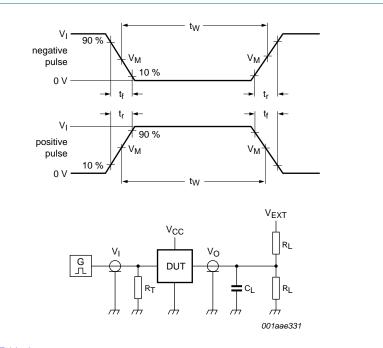


Fig 9. Data set-up and hold times for the Dn input to the LE input

Table 8. Measurement points

Supply voltage	Input		Output	Output							
V _{CC}	V _I V _M		V _M	V _X	V _Y						
1.2 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	V _{OH} – 0.15 V						
1.65 V to 1.95 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V _{OL} + 0.15 V	V _{OH} – 0.15 V						
2.3 V to 2.7 V	V_{CC}	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	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	$V_{OL} + 0.3 V$	$V_{OH} - 0.3 V$						



Test data is given in Table 9.

Definitions for 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_0 of the pulse generator.

V_{EXT} = External voltage for measuring switching times.

Fig 10. Test circuit for measuring switching times

Table 9. Test data

Supply voltage	Input		Load		V _{EXT}	V _{EXT}				
	V _I	t _r , t _f	CL	R _L	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}	≤ 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	500Ω	open	$2\times V_{CC}$	GND			
2.7 V	2.7 V	2.7 V ≤ 2.5 ns		500Ω	open	$2\times V_{CC}$	GND			
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	50 pF 500 Ω		$2\times V_{CC}$	GND			

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12. Package outline

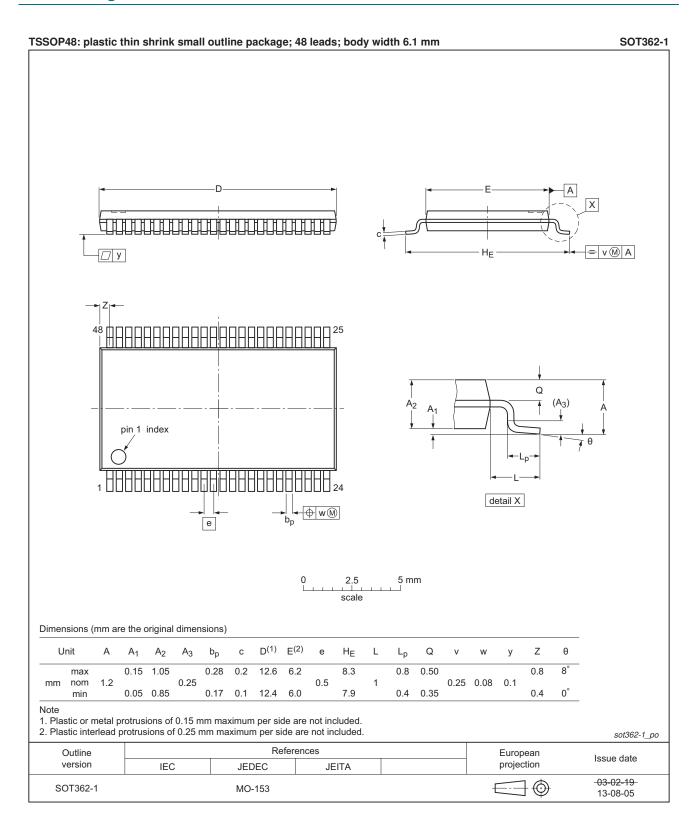


Fig 11. Package outline SOT362-1 (TSSOP-48)

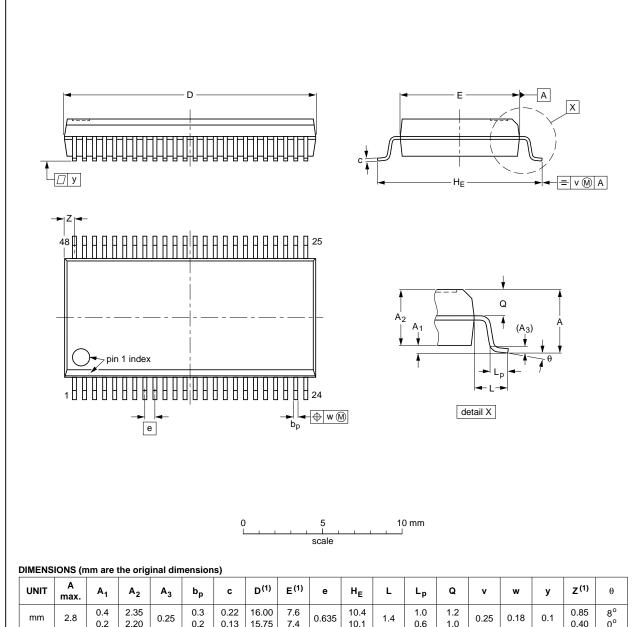
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SSOP48: plastic shrink small outline package; 48 leads; body width 7.5 mm

SOT370-1



						,												
UNIT	A max.	A ₁	A ₂	A ₃	b _p	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	Z ⁽¹⁾	θ
mm	2.8	0.4 0.2	2.35 2.20	0.25	0.3 0.2	0.22 0.13	16.00 15.75	7.6 7.4	0.635	10.4 10.1	1.4	1.0 0.6	1.2 1.0	0.25	0.18	0.1	0.85 0.40	8° 0°

Note

1. Plastic or metal protrusions of 0.25 mm maximum per side are not included.

OUTLINE	REFERENCES				EUROPEAN	IOOUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT370-1		MO-118				99-12-27 03-02-19

Fig 12. Package outline SOT370-1 (SSOP48)

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13. Abbreviations

Table 10. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model
MM	Machine Model
TTL	Transistor-Transistor Logic

14. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC_LVCH16373A v.8	20140106	Product data sheet	-	74LVC_LVCH16373A v.7
Modifications:	 Genera 	l description corrected (errata).	
74LVC_LVCH16373A v.7	20130118	Product data sheet	-	74LVC_LVCH16373A v.6
Modifications:		mat of this data sheet ha les of NXP Semiconduct		igned to comply with the new identity
	 Legal te 	exts have been adapted	to the new co	ompany name where appropriate.
	 <u>Table 5</u>, ranges. 		8 and Table !	9: values added for lower voltage
74LVC_LVCH16373A v.6	20031208	Product specification	-	74LVC_LVCH16373A v.5
74LVC_LVCH16373A v.5	20021002	Product specification	-	74LVC_H16373A v.4
74LVC_H16373A v.4	19980317	Product specification	-	74LVC16373A_74LVCH16373A v.3
74LVC16373A_74LVCH16373A v.3	19980317	Product specification	-	74LVC16373A v.2
74LVC16373A v.2	19970822	Product specification	-	74LVC16373A v.1
74LVC16373A v.1	-	-	-	-

74LVC16373A; 74LVCH16373A

16-bit D-type transparent latch with 5 V tolerant inputs/outputs; 3-state

15. Legal information

15.1 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.

- [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"
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nxp.com.

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