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Kind regards,

Team Nexperia

16-bit D-type transparent latch; 30 Ω series termination resistors; 5 V tolerant inputs/outputs; 3-state

Rev. 4 — 14 May 2013

Product data sheet

1. General description

The 74LVC162373A and 74LVCH162373A are 16-bit D-type transparent latches with separate D-type inputs with bus hold (74LVCH162373A only) for each latch and 3-state outputs for bus-oriented applications. One latch enable (pin nLE) input and one output enable (pin n \overline{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 pin nLE is HIGH, data at the corresponding data inputs (pins nDn) enter the latches. In this condition, the latches are transparent, that is, the latch output changes each time its corresponding data inputs changes. When pin nLE is LOW, the latches store the information that was present at the data inputs a set-up time preceding the HIGH to LOW transition of pin nLE.When pin n \overline{OE} is LOW, the contents of the eight latches are available at the outputs. When pin n \overline{OE} is HIGH, the outputs go to the high-impedance OFF-state. Operation of the n \overline{OE} input does not affect the state of the latches.

The device is designed with 30 Ω series termination resistors in both HIGH and LOW output stages to reduce line noise. Bus hold on 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 (74LVCH162373A 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)



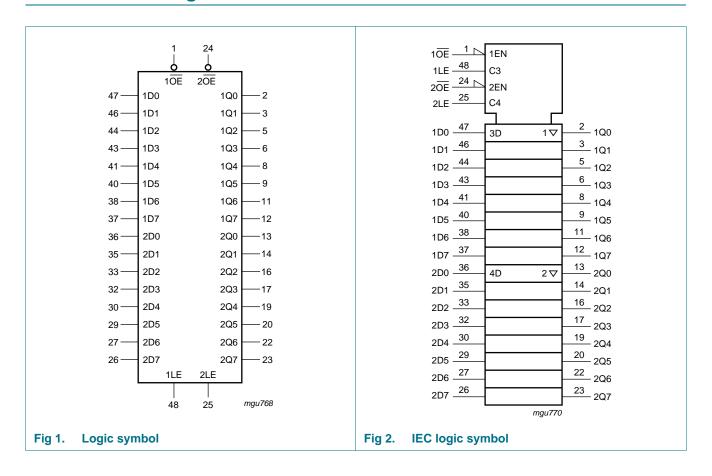
- ESD protection:
 - ♦ HBM JESD22-A114F exceeds 2000 V
 - ◆ MM JESD22-A115-B exceeds 200 V
 - CDM JESD22-C101E exceeds 1000 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Ordering information

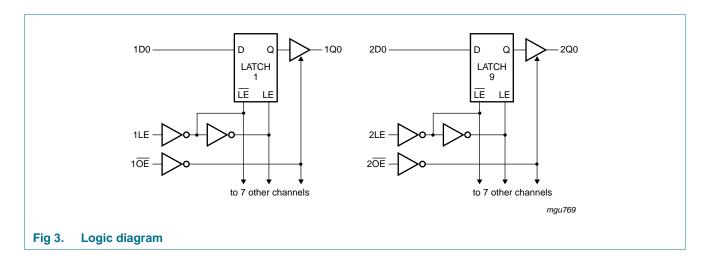
Table 1. Ordering information

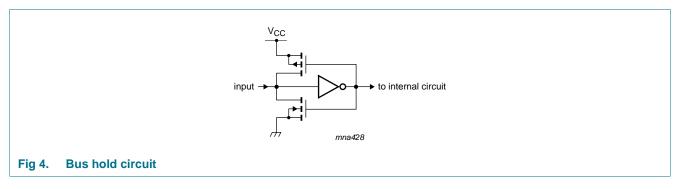
Type number	Package							
	Temperature range	Name	Description	Version				
74LVC162373ADGG	–40 °C to +125 °C	TSSOP48	plastic thin shrink small outline package;	SOT362-1				
74LVCH162373ADGG			48 leads; body width 6.1 mm					
74LVC162373ADL	–40 °C to +125 °C	SSOP48	plastic shrink small outline package; 48 leads;	SOT370-1				
74LVCH162373ADL			body width 7.5 mm					

4. Functional diagram



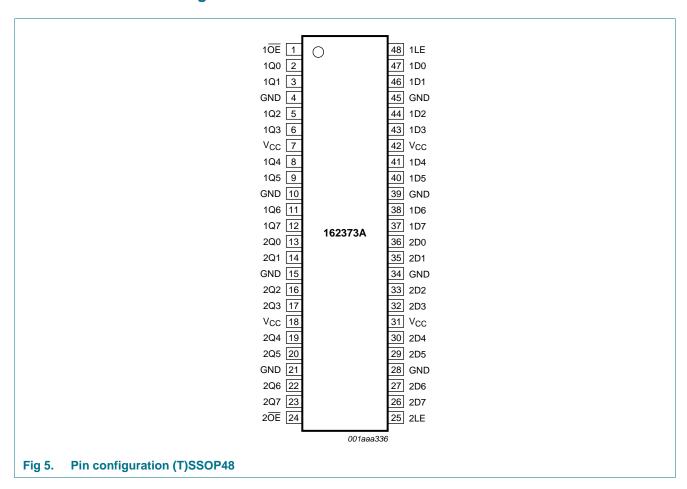
16-bit D-type transparent latch; 30 Ω resistors; 5 V tolerance; 3-state





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)
GND	4, 10, 15, 21, 28, 34, 39, 45	ground (0 V)
V_{CC}	7, 18, 31, 42	supply voltage
1LE	48	latch enable input (active HIGH)
2LE	25	latch enable input (active HIGH)
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
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

6. Functional description

Table 3. Functional table (per section of 8 bits)[1]

Operating modes	Input		Internal Latch	Output nQn		
	nOE	nLE	nDn			
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 _I < 0 V	-50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA
Vo	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	$V_O = 0 V to V_{CC}$	-	±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	-	-	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
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	0	-	20	ns/V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	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 input	V _{CC} = 1.2 V	1.08	-	-	1.08	-	٧
	voltage	V _{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	٧
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	٧
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2.0	-	-	2.0	-	٧
-	LOW-level input	V _{CC} = 1.2 V	-	-	0.12	-	0.12	٧
	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 V to 2.7 V	-	-	0.7	-	0.7	٧
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	0.8	-	0.8	٧
VoH	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}	-	$V_{CC}-0.3$	-	V
		$I_{O} = -2 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.7	-	-	1.55	-	V
		$I_{O} = -6 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	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
		$I_O = 2 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.65	V
		$I_O = 4 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		$I_0 = 6 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.4	-	0.6	V
		$I_O = 12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	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	μА

16-bit D-type transparent latch; 30 Ω resistors; 5 V tolerance; 3-state

Table 6. Static characteristics ...continued

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

Symbol	Parameter	Conditions	-4	0 °C to +	85 °C	-40 °C	to +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
l _{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	μА
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	μА
I _{CC}	supply current	$V_{CC} = 3.6 \text{ V};$ $V_I = V_{CC} \text{ or GND}; I_O = 0 \text{ A}$	-	0.1	20	-	80	μΑ
Δl _{CC}	additional supply current	per input pin; $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V};$ $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}$	-	5	500	-	5000	μА
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 LOW	$V_{CC} = 1.65; V_I = 0.58 \text{ V} $ [3][4]	10	-	-	10	-	μΑ
	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 HIGH	$V_{CC} = 1.65; V_I = 1.07 \text{ V} \frac{[3][4]}{}$	-10	-	-	-10	-	μΑ
	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 LOW	$V_{CC} = 1.95 \text{ V} \frac{[3][5]}{}$	200	-	-	200	-	μΑ
	overdrive current	$V_{CC} = 2.7 \text{ V}$	300	-	-	300	-	μΑ
		V _{CC} = 3.6 V	500	-	-	500	-	μΑ
I _{BHHO}	bus hold HIGH	V _{CC} = 1.95 V [3][5]	-200	-	-	-200	-	μΑ
	overdrive current	V _{CC} = 2.7 V	-300	-	-	-300	-	μΑ
		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 $V_I > V_{CC}$ allowing 5.5 V on the input pin.

^[3] Valid for data inputs (74LVCH162373A) 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_I 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 delay	nDn to nQn; see Figure 6	[2]						
		V _{CC} = 1.2 V		-	12	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.5	6.6	15.0	1.5	17.2	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	3.5	7.4	1.0	8.5	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.5	6.7	1.5	8.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	3.0	5.9	1.0	7.5	ns
		nLE to nQn; see Figure 7							
		V _{CC} = 1.2 V		-	14	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		2.4	7.6	16.0	2.4	18.5	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.7	4.0	7.9	1.7	9.1	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.7	7.0	1.5	9.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	3.4	6.1	1.5	8.0	ns
en	enable time	nOE to nQn; see Figure 8	[2]						
		V _{CC} = 1.2 V		-	18	-	-	-	ns
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		1.7	7.1	15.6	1.7	17.9	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.5	4.0	8.2	1.5	9.4	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	4.2	7.5	1.5	9.5	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.0	3.2	6.1	1.0	8.0	ns
dis	disable time	nOE to nQn; see Figure 8	[2]						
		V _{CC} = 1.2 V		-	11	-	-	-	ns
		V _{CC} = 1.65 V		2.5	4.2	8.5	2.5	9.8	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		1.0	2.3	4.6	1.0	5.3	ns
		$V_{CC} = 2.7 \text{ V}$		1.5	3.2	4.8	1.5	6.0	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		1.5	2.9	4.6	1.5	6.0	ns
W	pulse width	nLE HIGH; see Figure 7							
		$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$		5.0	-	-	5.0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		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
su	set-up time	nDn to nLE; see Figure 9							
		V_{CC} = 1.65 V to 1.95 V		3.0	-	-	3.0	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.5	-	-	2.5	-	ns
		$V_{CC} = 2.7 \text{ V}$		2.0	-	-	2.0	-	ns
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		2.0	1.0	-	2.0	-	ns

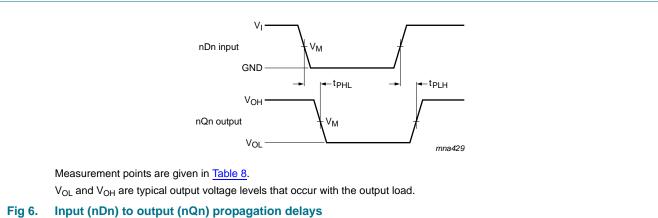
 Table 7.
 Dynamic characteristics ...continued

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

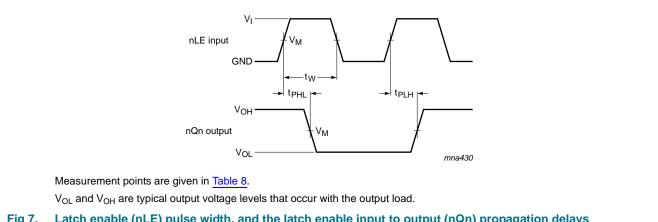
Symbol	Parameter	Conditions		T _{amb} =	–40 °C to	+85 °C	-40 °C to +125 °C		Unit
				Min	Typ[1]	Max	Min	Max	
t _h	hold time	nDn to nLE; see Figure 9							
		V_{CC} = 1.65 V to 1.95 V		2.5	-	-	2.5	-	ns
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2.0	-	-	2.0	-	ns
		$V_{CC} = 2.7 \text{ V}$		0.9	-	-	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	$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$	<u>[3]</u>	-	-	1.0	-	1.5	ns
C_{PD}	power dissipation	per input; $V_I = GND$ to V_{CC}	<u>[4]</u>						
	capacitance	V _{CC} = 1.65 V to 1.95 V		-	10.8	-	-	-	pF
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-	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.
- [2] t_{pd} is the same as t_{PLH} and t_{PHL} .
 - t_{en} is the same as t_{PZL} and t_{PZH} .
 - $t_{\mbox{\scriptsize dis}}$ is the same as $t_{\mbox{\scriptsize PLZ}}$ and $t_{\mbox{\scriptsize PHZ}}.$
- [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).
 - $P_D = C_{PD} \times V_{CC}{}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}{}^2 \times f_o) \text{ where:}$
 - 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

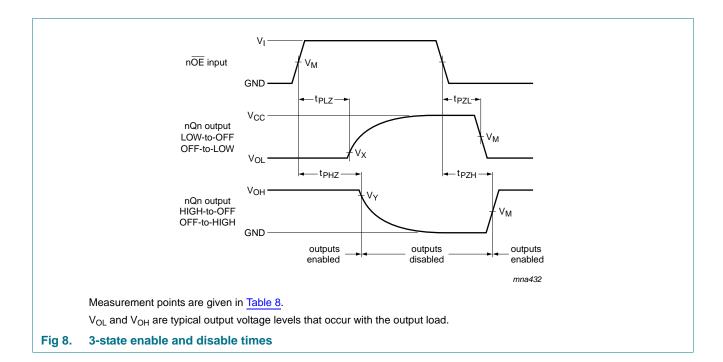
11. AC waveforms

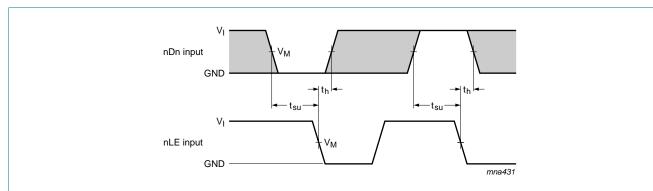






Latch enable (nLE) pulse width, and the latch enable input to output (nQn) propagation delays Fig 7.



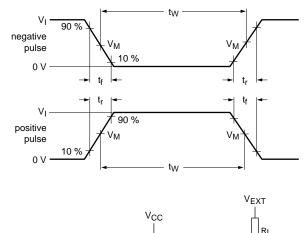


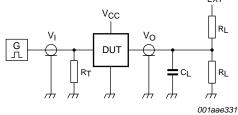
Measurement points are given in <u>Table 8</u>. The shaded areas indicate when the input is permitted to change for predictable output performance.

Fig 9. Data set-up and hold times for the nDn input to the nLE input

Table 8. Measurement points

Supply voltage	Input		Output				
V _{CC}	VI	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_o of the pulse generator.

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

Fig 10. Test circuit for measuring switching times

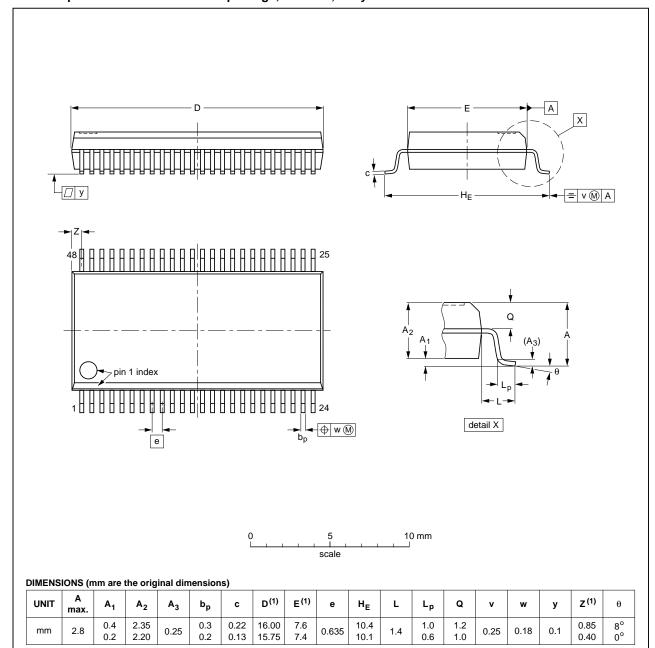
Table 9. Test data

Supply voltage	Input	Input		Load		V _{EXT}		
	VI	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	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500Ω	open	$2\times V_{CC}$	GND	

12. Package outline

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

SOT370-1



Note

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

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

Fig 11. Package outline SOT370-1 (SSOP48)

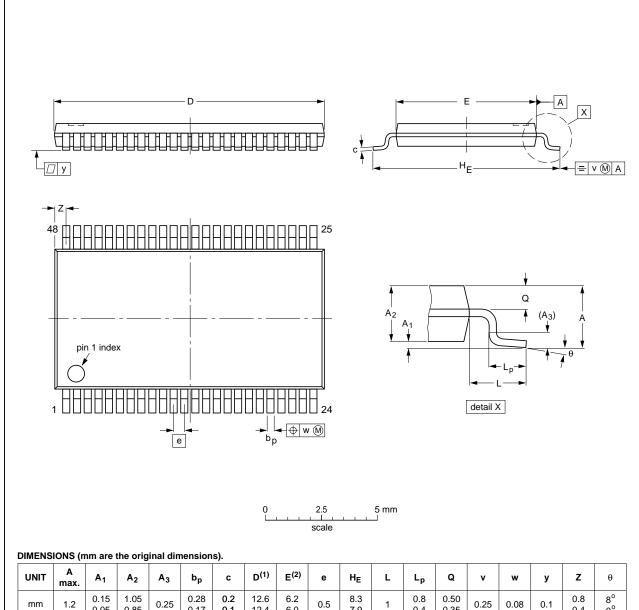
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TSSOP48: plastic thin shrink small outline package; 48 leads; body width 6.1 mm

SOT362-1



UNIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽²⁾	е	HE	L	Lp	Q	v	w	у	Z	θ
mm	1.2	0.15 0.05	1.05 0.85	0.25	0.28 0.17	0.2 0.1	12.6 12.4	6.2 6.0	0.5	8.3 7.9	1	0.8 0.4	0.50 0.35	0.25	0.08	0.1	0.8 0.4	8° 0°

- 1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.
- 2. Plastic interlead protrusions of 0.25 mm maximum per side are not included.

OUTLINE		REFER	EUROPEAN	ISSUE DATE			
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE	
SOT362-1		MO-153				99-12-27 03-02-19	

Fig 12. Package outline SOT362-1 (TSSOP48)

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16-bit D-type transparent latch; 30 Ω resistors; 5 V tolerance; 3-state

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

Typenumbers: 7	Product data sheet 74LVC162373ADGG and 74L	- VC162373ADL add	74LVC_LVCH162373A v.3 ded.
		VC162373ADL add	ded.
20130118	D 1 (1 () (
	Product data sheet	-	74LVC_LVCH162373A v.2
		igned to comply wi	ith the new identity
 Legal texts have 	e been adapted to the new co	mpany name wher	e appropriate.
• Table 5, Table 6	, <u>Table 7</u> , <u>Table 8</u> and <u>Table 9</u>	: values added for	lower voltage ranges.
20040205	Product specification	-	74LVC_LVCH162373A v.1
19980805	Product specification	-	-
2	 The format of the guidelines of NX Legal texts have Table 5, Table 6 20040205 	 The format of this data sheet has been redes guidelines of NXP Semiconductors. Legal texts have been adapted to the new comparison. Table 5, Table 6, Table 7, Table 8 and Table 9 20040205 Product specification 	 The format of this data sheet has been redesigned to comply wiguidelines of NXP Semiconductors. Legal texts have been adapted to the new company name where Table 5, Table 6, Table 7, Table 8 and Table 9: values added for 20040205 Product specification

16-bit D-type transparent latch; 30 Ω resistors; 5 V tolerance; 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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16-bit D-type transparent latch; 30 Ω resistors; 5 V tolerance; 3-state

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