16-bit D-type transparent latch; 30  $\Omega$  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 nOE) 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 nOE is LOW, the contents of the eight latches are available at the outputs. When pin nOE is HIGH, the outputs go to the high-impedance OFF-state. Operation of the nOE input does not affect the state of the latches.

The device is designed with 30  $\Omega$  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<sub>CC</sub> = 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)



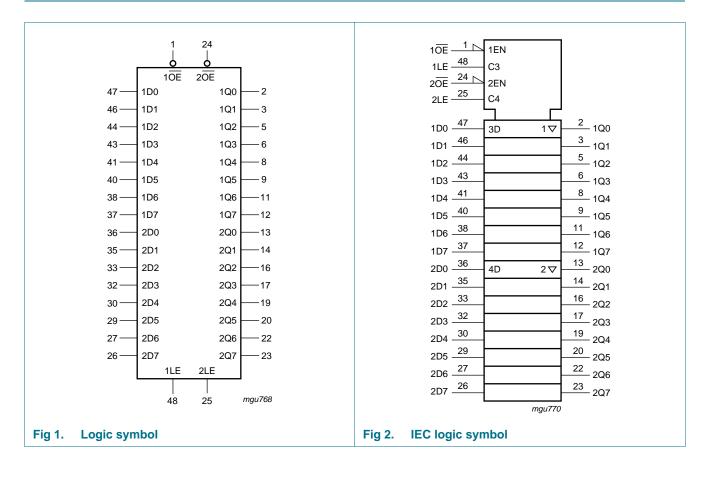
16-bit D-type transparent latch; 30 Ω resistors; 5 V tolerance; 3-state

- 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

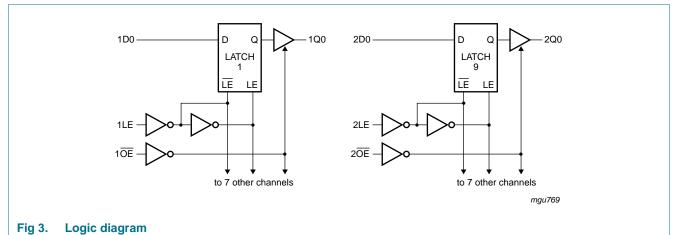
#### **Ordering information** 3.

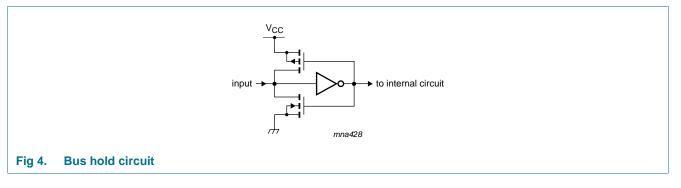
Table 1.         Ordering information									
Type number	Package								
	Temperature range	Name	Description	Version					
74LVC162373ADGG	–40 °C to +125 °C	TSSOP48	plastic thin shrink small outline package;	SOT362-1					
74LVCH162373ADGG			48 leads; body width 6.1 mm						
74LVC162373ADL	–40 °C to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

#### **Functional diagram** 4.



16-bit D-type transparent latch; 30  $\Omega$  resistors; 5 V tolerance; 3-state

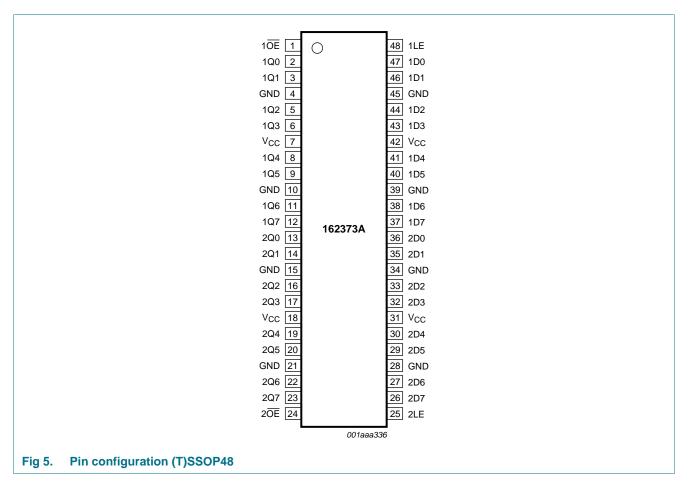




16-bit D-type transparent latch; 30  $\Omega$  resistors; 5 V tolerance; 3-state

### 5. Pinning information

### 5.1 Pinning



### 5.2 Pin description

Table 2.	Pin description	
Symbol	Pin	Description
1 <mark>OE</mark>	1	output enable input (active LOW)
2 <mark>0E</mark>	24	output enable input (active LOW)
GND	4, 10, 15, 21, 28, 34, 39, 45	ground (0 V)
V <sub>CC</sub>	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

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

### 6. Functional description

#### Table 3. Functional table (per section of 8 bits)<sup>[1]</sup>

Operating modes	Input		Internal Latch	Output nQn	
	nOE	nLE	nDn	_	
Enable and read register (transparent mode)	L	Н	L	L	L
	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

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

### 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 <sub>CC</sub>	supply voltage		-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>1</sub> < 0 V	-50	-	mA
VI	input voltage		<u>[1]</u> –0.5	+6.5	V
I <sub>OK</sub>	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 <sub>CC</sub> + 0.5	V
		output 3-state	[2] -0.5	+6.5	V
Ι <sub>Ο</sub>	output current	$V_{O} = 0 V$ to $V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb}$ = -40 °C to +125 °C	<u>[3]</u>	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] Above 60 °C, the value of  $P_{tot}$  derates linearly with 5.5 mW/K.

16-bit D-type transparent latch; 30  $\Omega$  resistors; 5 V tolerance; 3-state

### 8. Recommended operating conditions

Table 5.	Recommended operating conditio	ns				
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	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 <sub>CC</sub>	V
		output 3-state	0	-	5.5	V
T <sub>amb</sub>	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	Unit	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	V
	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 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 <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	0.12	V
	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	V
		$V_{CC}$ = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH} \text{ or } V_{IL}$						
	output voltage	$I_{O} = -100 \ \mu A;$ $V_{CC} = 1.65 \ V \ to \ 3.6 \ V$	$V_{CC}-0.2$	V <sub>CC</sub>	-	$V_{CC}-0.3$	-	V
		$I_{O} = -2 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	-	-	1.05	-	V
		$I_{O}$ = -4 mA; $V_{CC}$ = 2.3 V	1.7	-	-	1.55	-	V
		$I_{O} = -6 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	V
		$I_0 = -12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	V
V <sub>OL</sub>	LOW-level	$V_{I} = V_{IH} \text{ or } V_{IL}$						
	output voltage	$I_{O} = 100 \ \mu A;$ $V_{CC} = 1.65 \ V \text{ to } 3.6 \ V$	-	-	0.2	-	0.3	V
		$I_{O} = 2 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	0.65	V
		$I_0 = 4 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	0.8	V
		$I_{O}$ = 6 mA; $V_{CC}$ = 2.7 V	-	-	0.4	-	0.6	V
		$I_0$ = 12 mA; $V_{CC}$ = 3.0 V	-	-	0.55	-	0.8	V
I	input leakage current	V <sub>CC</sub> = 3.6 V; V <sub>I</sub> = 5.5 V or GND <sup>[2]</sup>	-	±0.1	±5	-	±20	μΑ

74LVC\_LVCH162373A

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

Symbol	Parameter	Conditions		-40	°C to +8	35 °C	–40 °C	C to +125 °C	Unit
				Min	Typ <mark>[1]</mark>	Мах	Min	Max	
l <sub>oz</sub>	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
OFF	power-off leakage current	$V_{CC}$ = 0 V; V <sub>I</sub> or V <sub>O</sub> = 5.5 V	-		0.1	±10	-	±20	μA
lcc	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
∆l <sub>CC</sub>	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
Cı	input capacitance	$V_{CC} = 0 V \text{ to } 3.6 V;$ $V_I = GND \text{ to } V_{CC}$	-		5.0	-	-	-	pF
BHL	bus hold LOW	V <sub>CC</sub> = 1.65; V <sub>I</sub> = 0.58 V [3][4]		10	-	-	10	-	μΑ
	current	$V_{CC} = 2.3; V_I = 0.7 V$		30	-	-	25	-	μΑ
		$V_{CC} = 3.0; V_I = 0.8 V$		75	-	-	60	-	μΑ
внн	bus hold HIGH	V <sub>CC</sub> = 1.65; V <sub>I</sub> = 1.07 V [3][4]		-10	-	-	-10	-	μA
	current	$V_{CC} = 2.3; V_I = 1.7 V$		-30	-	-	-25	-	μΑ
		$V_{CC} = 3.0; V_{I} = 2.0 V$		-75	-	-	-60	-	μΑ
BHLO	bus hold LOW	V <sub>CC</sub> = 1.95 V [3][5]		200	-	-	200	-	μΑ
	overdrive current	V <sub>CC</sub> = 2.7 V		300	-	-	300	-	μA
		V <sub>CC</sub> = 3.6 V		500	-	-	500	-	μΑ
внно	bus hold HIGH	V <sub>CC</sub> = 1.95 V [3][5]		-200	-	-	-200	-	μΑ
	overdrive current	V <sub>CC</sub> = 2.7 V		-300	-	-	-300	-	μA
		V <sub>CC</sub> = 3.6 V		-500	-	-	-500	-	μΑ

#### Table 6. Static characteristics ...continued

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

[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\_l > 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<sub>1</sub> level.

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

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

### **10.** Dynamic characteristics

#### Table 7. Dynamic characteristics

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

Symbol	Parameter	Conditions		T <sub>amb</sub> =	–40 °C to	+85 °C	–40 °C to +125 °C		Unit	
				Min	Typ <mark>[1]</mark>	Max	Min	Max		
t <sub>pd</sub>	propagation delay	nDn to nQn; see Figure 6	[2]							
		V <sub>CC</sub> = 1.2 V		-	12	-	-	-	ns	
		$V_{CC}$ = 1.65 V to 1.95 V		1.5	6.6	15.0	1.5	17.2	ns	
		$V_{CC}$ = 2.3 V to 2.7 V		1.0	3.5	7.4	1.0	8.5	ns	
		$V_{CC} = 2.7 V$		1.5	3.5	6.7	1.5	8.5	ns	
		$V_{CC}$ = 3.0 V to 3.6 V		1.0	3.0	5.9	1.0	7.5	ns	
		nLE to nQn; see Figure 7								
		V <sub>CC</sub> = 1.2 V		-	14	-	-	-	ns	
		$V_{CC}$ = 1.65 V to 1.95 V		2.4	7.6	16.0	2.4	18.5	ns	
		$V_{CC}$ = 2.3 V to 2.7 V		1.7	4.0	7.9	1.7	9.1	ns	
		$V_{CC} = 2.7 V$		1.5	3.7	7.0	1.5	9.0	ns	
		$V_{CC}$ = 3.0 V to 3.6 V		1.5	3.4	6.1	1.5	8.0	ns	
t <sub>en</sub>	enable time	nOE to nQn; see Figure 8	[2]							
		V <sub>CC</sub> = 1.2 V		-	18	-	-	-	ns	
		$V_{CC}$ = 1.65 V to 1.95 V		1.7	7.1	15.6	1.7	17.9	ns	
		$V_{CC}$ = 2.3 V to 2.7 V		1.5	4.0	8.2	1.5	9.4	ns	
		$V_{CC} = 2.7 V$		1.5	4.2	7.5	1.5	9.5	ns	
		$V_{CC}$ = 3.0 V to 3.6 V		1.0	3.2	6.1	1.0	8.0	ns	
t <sub>dis</sub>	disable time	nOE to nQn; see Figure 8	[2]							
		V <sub>CC</sub> = 1.2 V		-	11	-	-	-	ns	
		V <sub>CC</sub> = 1.65 V		2.5	4.2	8.5	2.5	9.8	ns	
		$V_{CC}$ = 2.3 V to 2.7 V		1.0	2.3	4.6	1.0	5.3	ns	
		$V_{CC} = 2.7 V$		1.5	3.2	4.8	1.5	6.0	ns	
		$V_{CC}$ = 3.0 V to 3.6 V		1.5	2.9	4.6	1.5	6.0	ns	
t <sub>W</sub>	pulse width	nLE HIGH; see Figure 7								
		$V_{CC}$ = 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	
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		3.0	2.0	-	3.0	-	ns	
t <sub>su</sub>	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 V to 2.7 V		2.5	-	-	2.5	-	ns	
		$V_{CC} = 2.7 V$		2.0	-	-	2.0	-	ns	
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		2.0	1.0	-	2.0	-	ns	

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

Symbol	Parameter	Conditions		T <sub>amb</sub> =	–40 °C to	+85 °C	–40 °C to +125 °C		Unit
				Min	Typ <mark>[1]</mark>	Max	Min	Max	
t <sub>h</sub>	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 V to 2.7 V		2.0	-	-	2.0	-	ns
		$V_{CC} = 2.7 V$		0.9	-	-	0.9	-	ns
		$V_{CC}$ = 3.0 V to 3.6 V		+0.9	-1.0	-	+0.9	-	ns
t <sub>sk(o)</sub>	output skew time	$V_{CC}$ = 3.0 V to 3.6 V	[3]	-	-	1.0	-	1.5	ns
C <sub>PD</sub>	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 V to 2.7 V		-	13.0	-	-	-	pF
		$V_{CC}$ = 3.0 V to 3.6 V		-	15.0	-	-	-	pF

#### Table 7. Dynamic characteristics ... continued

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

[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.

[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  $\mu W$ ).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_0)$  where:  $f_i = \text{input frequency in MHz}$ ;  $f_0 = \text{output frequency in MHz}$ 

 $C_L$  = output load capacitance in pF

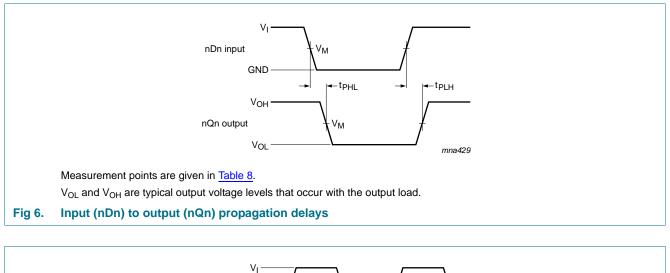
V<sub>CC</sub> = supply voltage in Volts

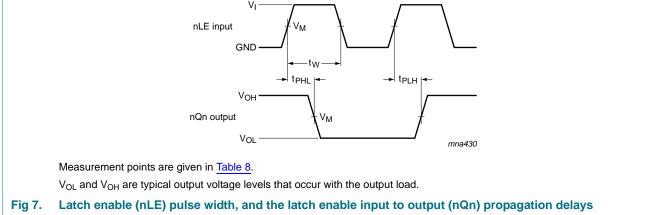
N = number of inputs switching

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

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### 11. AC waveforms

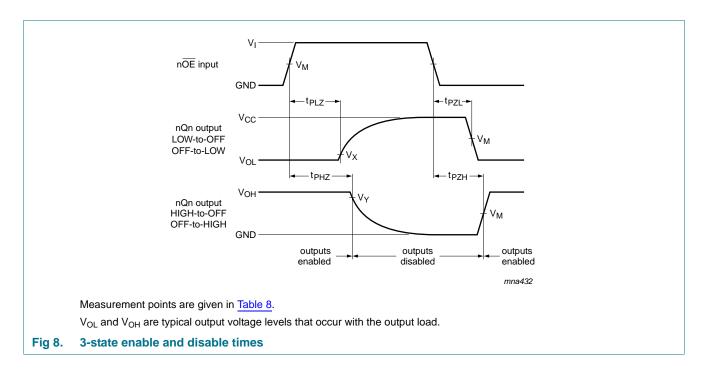


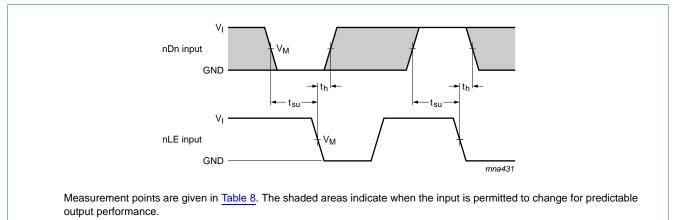


### **NXP Semiconductors**

## 74LVC162373A; 74LVCH162373A

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



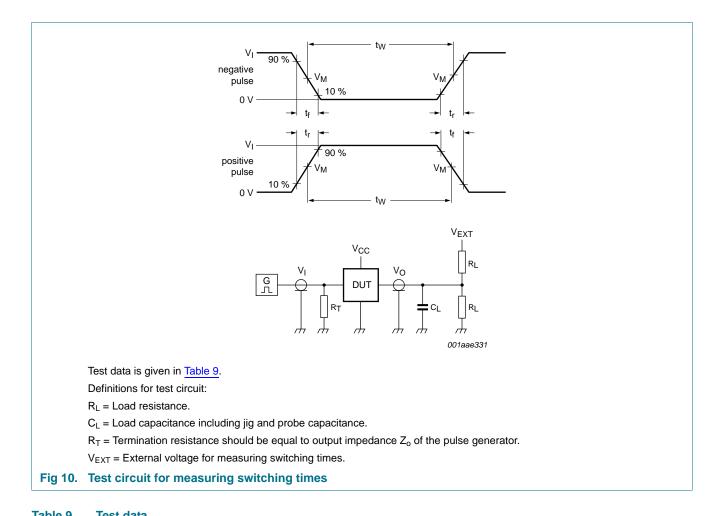


#### Fig 9. Data set-up and hold times for the nDn input to the nLE input

#### Table 8. Measurement points

Supply voltage	Input		Output	Output				
V <sub>cc</sub>	VI	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>			
1.2 V	V <sub>CC</sub>	$0.5\times V_{CC}$	$0.5\times V_{CC}$	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> – 0.15 V			
1.65 V to 1.95 V	V <sub>CC</sub>	$0.5\times V_{CC}$	$0.5\times V_{CC}$	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> – 0.15 V			
2.3 V to 2.7 V	V <sub>CC</sub>	$0.5\times V_{CC}$	$0.5\times V_{CC}$	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> – 0.15 V			
2.7 V	2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> – 0.3 V			
3.0 V to 3.6 V	2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> – 0.3 V			

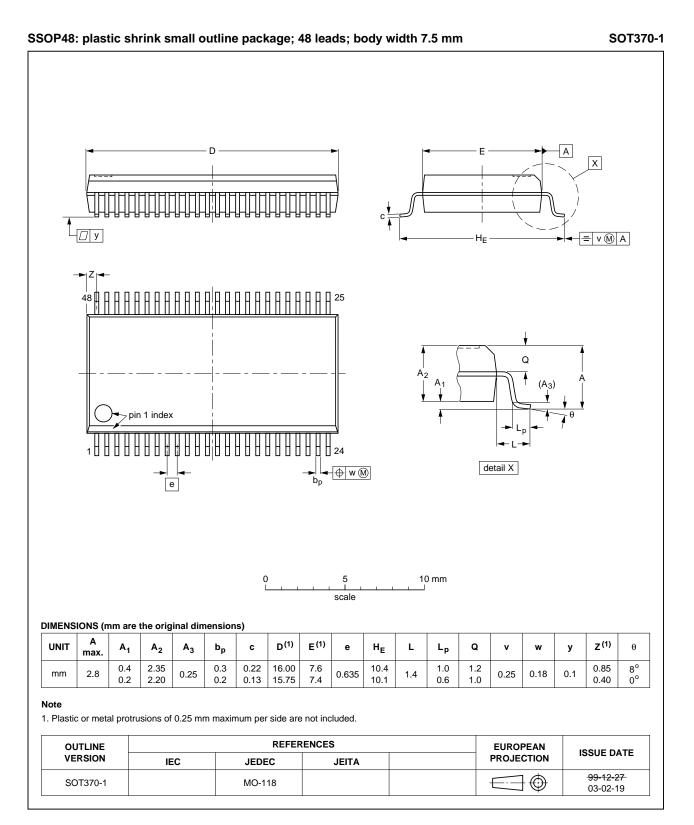
16-bit D-type transparent latch; 30 Ω resistors; 5 V tolerance; 3-state



Supply voltage	Input		Load	Load		V <sub>EXT</sub>			
	VI	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PLZ</sub> , t <sub>PZL</sub>	t <sub>PHZ</sub> , t <sub>PZH</sub>		
1.2 V	V <sub>CC</sub>	$\leq$ 2 ns	30 pF	1 kΩ	open	$2 \times V_{CC}$	GND		
1.65 V to 1.95 V	V <sub>CC</sub>	$\leq$ 2 ns	30 pF	1 kΩ	open	$2\times V_{CC}$	GND		
2.3 V to 2.7 V	V <sub>CC</sub>	$\leq$ 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	≤ 2.5 ns	50 pF	500 Ω	open	$2 \times V_{CC}$	GND		

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

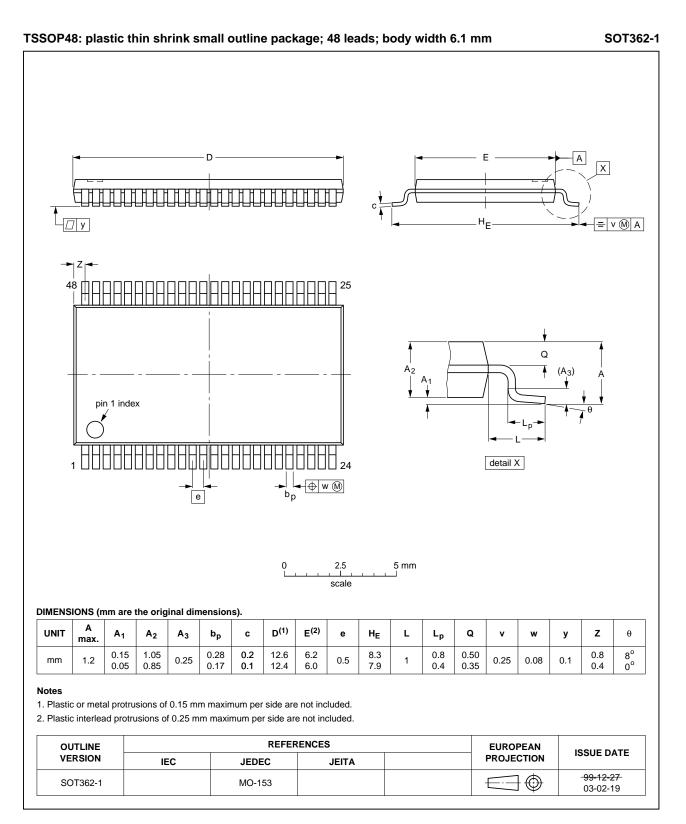
### 12. Package outline



#### Fig 11. Package outline SOT370-1 (SSOP48)

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



#### Fig 12. Package outline SOT362-1 (TSSOP48)

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16-bit D-type transparent latch; 30  $\Omega$  resistors; 5 V tolerance; 3-state

### **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

	· ·				
Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC_LVCH162373A v.4	20130514	Product data sheet	-	74LVC_LVCH162373A v.3	
Modifications:	• Typenumbers:	74LVC162373ADGG and 74L	VC162373ADL ad	ded.	
74LVC_LVCH162373A v.3	20130118	Product data sheet	-	74LVC_LVCH162373A v.2	
Modifications:	odifications: • The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.				
	<ul> <li>Legal texts have been adapted to the new company name where appropriate.</li> </ul>				
	• <u>Table 5,</u> <u>Table 6</u>	6, <u>Table 7, Table 8</u> and <u>Table 9</u>	<u>9</u> : values added for	lower voltage ranges.	
74LVC_LVCH162373A v.2	20040205	Product specification	-	74LVC_LVCH162373A v.1	
74LVC_LVCH162373A v.1	19980805	Product specification	-	-	

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

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Document status[1][2]	Product status <sup>[3]</sup>	Definition
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.
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[2] The term 'short data sheet' is explained in section "Definitions".

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

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74LVC\_LVCH162373A

**Product data sheet** 

### **NXP Semiconductors**

## 74LVC162373A; 74LVCH162373A

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

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