74LVT373

3.3 V octal D-type transparent latch; 3-state

Rev. 3 — 21 November 2011 Product data sheet

1. General description

The 74LVT373 is a high-performance BiCMOS product designed for V_{CC} operation at 3.3 V. This device is an octal transparent latch coupled to eight 3-state output buffers. The two sections of the device are controlled independently by latch enable (LE) and output enable ($\overline{OE}$) control gates. The data on the Dn inputs are transferred to the latch outputs when the latch enable (LE) input is HIGH. The latch remains transparent to the data inputs while LE is HIGH, and stores the data that is present one setup time before the HIGH-to-LOW enable transition.

The 3-state output buffers are designed to drive heavily loaded 3-state buses, MOS memories, or MOS microprocessors. The active-low output enable ($\overline{OE}$) controls all eight 3-state buffers independent of the latch operation.

When $\overline{OE}$ is LOW, the latched or transparent data appears at the outputs. When $\overline{OE}$ is HIGH, the outputs are in the high-impedance OFF-state, which means they will neither drive nor load the bus.

The 74LVT373 is functionally identical to the 74LVT573, but has a different pin arrangement.

2. Features and benefits

- Inputs and outputs arranged for easy interfacing to microprocessors
- 3-state outputs for bus interfacing
- Common output enable control
- TTL input and output switching levels
- Input and output interface capability to systems at 5 V supply
- Bus hold data inputs eliminate need for external pull-up resistors to hold unused inputs
- Live insertion and extraction permitted
- No bus current loading when output is tied to 5 V bus
- Power-up reset
- Power-up 3-state
- Latch-up protection
  - JESD78 class II exceeds 500 mA
- ESD protection:
  - HBM JESD22-A114E exceeds 2000 V
  - MM JESD22-A115-A exceeds 200 V
- Specified from −40 °C to +85 °C

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVT373D	–40 °C to +85 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1
74LVT373PW	–40 °C to +85 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1

4. Functional diagram

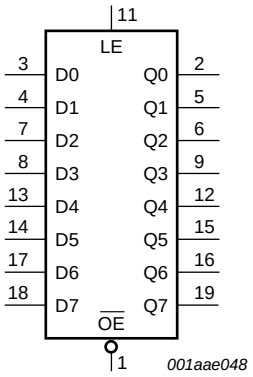


Fig 1. Logic symbol

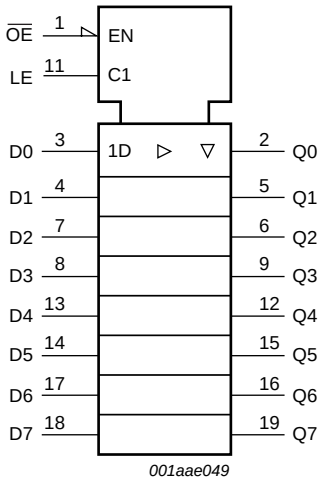


Fig 2. IEC logic symbol

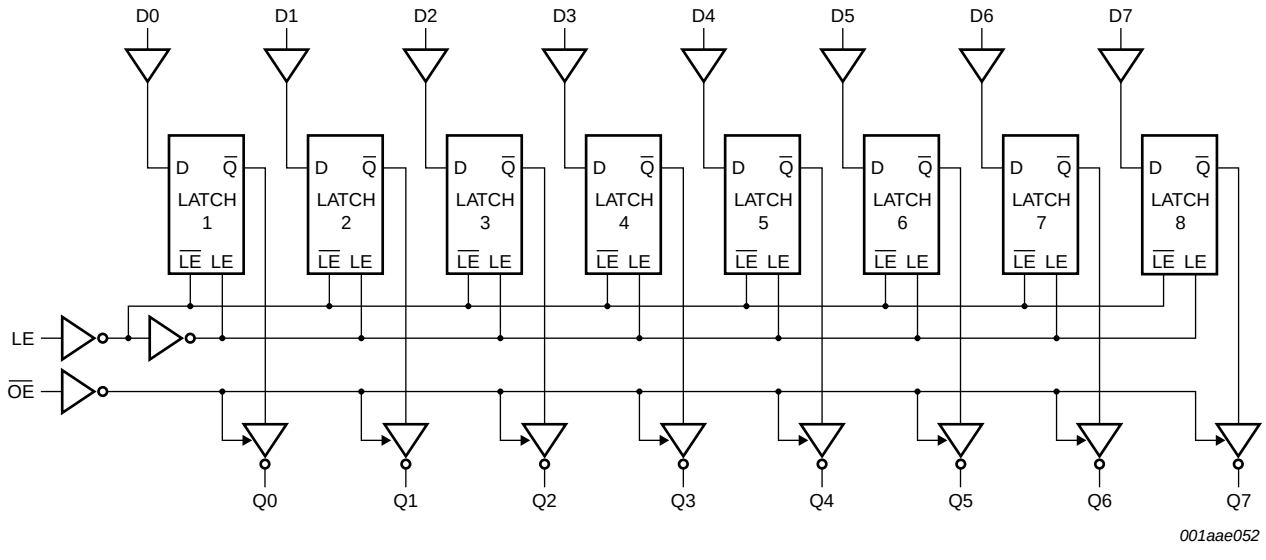


Fig 3. Logic diagram

5. Pinning information

5.1 Pinning

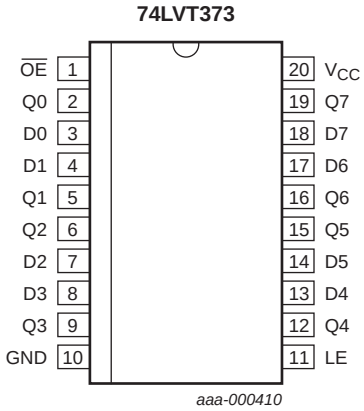


Fig 4. Pin configuration for SO20 and TSSOP20

5.2 Pin description

Table 2. Pin description

Symbol	Pin	Description
$\overline{OE}$	1	output enable input (active LOW)
D0 to D7	3, 4, 7, 8, 13, 14, 17, 18	data input
GND	10	ground (0 V)
LE	11	latch enable (active HIGH)
Q0 to Q7	2, 5, 6, 9, 12, 15, 16, 19	data output
V_{CC}	20	supply voltage

6. Functional description

6.1 Function table

Table 3. Function table [1]

Operating mode	Control $\overline{OE}$	Control LE	Input Dn	Internal register	Output Qn
Load and read register enable	L	H	L	L	L
			H	H	H
Latch and read register	L	↓	l	L	L
			h	H	H
Hold	L	L	X	NC	NC
Disable outputs	H	L	X	NC	Z
		H	Dn	Dn	Z

[1] H = HIGH voltage level;
L = LOW voltage level;

↓ = HIGH-to-LOW latch enable transition;
h = HIGH voltage level one setup time prior to the LOW-to-HIGH clock transition;
l = LOW voltage level one setup time prior to the LOW-to-HIGH clock transition;
Z = high-impedance OFF-state;
NC = no change;
X = don't care.

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
V_I	input voltage		[1]	−0.5	+7.0	V
V_O	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
I_O	output current	output in LOW-state		-	128	mA
		output in HIGH-state		-	−64	mA
T_{stg}	storage temperature			−65	+150	°C
T_j	junction temperature		[2]	-	150	°C
P_{tot}	total power dissipation	T_{amb} = −40 °C to +85 °C	[3]	-	500	mW

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

[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] For SO20 packages: above 70 °C derate linearly with 8 mW/K.
For TSSOP20 packages: above 60 °C derate linearly with 5.5 mW/K.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	supply voltage		2.7	-	3.6	V
V_I	input voltage		0	-	5.5	V
V_{IH}	HIGH-level input voltage		2.0	-	-	V
V_{IL}	LOW-level input voltage		-	-	0.8	V
I_{OH}	HIGH-level output current		-	-	−32	mA
I_{OL}	LOW-level output current		-	-	32	mA
		current duty cycle ≤ 50 %; $f_i \geq 1$ kHz	-	-	64	mA
T_{amb}	ambient temperature	in free air	−40	-	+85	°C
$\Delta t/\Delta V$	input transition rise and fall rate	outputs enabled	-	-	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		T_{amb} = –40 °C to +85 °C			Unit
				Min	Typ[1]	Max	
V_{IK}	input clamping voltage	V_{CC} = 2.7 V; I_{IK} = –18 mA		–1.2	–0.9	-	V
V_{OH}	HIGH-level output voltage	V_{CC} = 2.7 V to 3.6 V; I_{OH} = –100 μA		V_{CC} – 0.2	V_{CC} – 0.1	-	V
		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	2.2	-	V
V_{OL}	LOW-level output voltage	V_{CC} = 2.7 V; I_{OL} = 100 μA		-	0.1	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
$V_{OL(pu)}$	power-up LOW-level output voltage	V_{CC} = 3.6 V; I_O = 1 mA; V_I = GND or V_{CC}	[2]	-	0.13	0.55	V
I_I	input leakage current	all input pins;					
		V_{CC} = 0 V or 3.6 V; V_I = 5.5 V		-	1	10	μA
		control pins;					
		V_{CC} = 3.6 V; V_{CC} or GND		-	±0.1	±1	μA
		data pins					
		V_{CC} = 3.6 V; V_I = V_{CC}	[3]	-	0.1	1	μA
		V_{CC} = 3.6 V; V_I = 0 V		–5	–1	-	μA
I_{OFF}	power-off leakage current	V_{CC} = 0 V; V_I or V_O = 0 V to 4.5 V		-	1	±100	μA
I_{BHL}	bus hold LOW current	Dn input; V_{CC} = 3 V; V_I = 0.8 V	[4]	75	150	-	μA
I_{BHH}	bus hold HIGH current	Dn input; V_{CC} = 3 V; V_I = 2.0 V		-	–150	–75	μA
I_{BHHO}	bus hold HIGH overdrive current	Dn input; V_{CC} = 3.6 V; V_I = 0 V to 3.6 V	[4]	-	-	500	μA
I_{BHLO}	bus hold LOW overdrive current	Dn input; V_{CC} = 3.6 V; V_I = 0 V to 3.6 V		–500	-	-	μA
I_{LO}	output leakage current	Qn output HIGH when V_O = 5.5 V and V_{CC} = 3.0 V		-	60	125	μA
$I_{O(pu/pd)}$	power-up/power-down output current	V_{CC} ≤ 1.2 V; V_O = 0.5 V to V_{CC}; V_I = GND or V_{CC}; $\overline{OE}$ = don't care	[5]	-	1	±100	μA
I_{OZ}	OFF-state output current	V_{CC} = 3.6 V; V_I = V_{IH} or V_{IL}					
		output HIGH: V_O = 3.0 V		-	1	5	μA
		output LOW: V_O = 0.5 V		–5	–1	-	μA
I_{CC}	supply current	V_{CC} = 3.6 V; V_I = GND or V_{CC}; I_O = 0 A					
		outputs HIGH		-	0.13	0.19	mA
		outputs LOW		-	3	12	mA
		outputs disabled	[6]	-	0.13	0.19	mA

Table 6. Static characteristics *...continued*

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

Symbol	Parameter	Conditions	T_{amb} = –40 °C to +85 °C			Unit
			Min	Typ[1]	Max	
ΔI_{CC}	additional supply current	per input pin; V_{CC} = 3 V to 3.6 V; one input at V_{CC} − 0.6 V and other inputs at V_{CC} or GND [7]	-	0.1	0.2	mA
C_I	input capacitance	V_I = 0 V or 3.0 V	-	4	-	pF
C_O	output capacitance	outputs disabled; V_O = 0 V or 3.0 V	-	8	-	pF

[1] 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 flip-flops (or latches) after applying power.

[3] 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.

[5] 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

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

Symbol	Parameter	Conditions	T_{amb} = –40 °C to +85 °C			Unit
			Min	Typ[1]	Max	
t_{PLH}	LOW to HIGH propagation delay	LE to Qn; see Figure 5				
		V_{CC} = 3.0 V to 3.6 V	1.9	3.1	4.9	ns
		V_{CC} = 2.7 V	2.6	3.7	5.3	ns
		Dn to Qn; see Figure 6				
		V_{CC} = 3.0 V to 3.6 V	1.9	3.0	4.8	ns
		V_{CC} = 2.7 V	2.6	3.4	5.2	ns
t_{PHL}	HIGH to LOW propagation delay	LE to Qn; see Figure 5				
		V_{CC} = 3.0 V to 3.6 V	1.9	3.3	4.7	ns
		V_{CC} = 2.7 V	1.9	3.4	5.0	ns
		Dn to Qn; see Figure 6				
		V_{CC} = 3.0 V to 3.6 V	1.8	3.0	4.8	ns
		V_{CC} = 2.7 V	2.4	3.6	5.0	ns
t_{PZH}	OFF-state to HIGH propagation delay	$\overline{OE}$ to Qn; see Figure 7				
		V_{CC} = 3.0 V to 3.6 V	1.8	3.4	5.7	ns
		V_{CC} = 2.7 V	3.0	4.5	6.0	ns
t_{PZL}	OFF-state to LOW propagation delay	$\overline{OE}$ to Qn; see Figure 8				
		V_{CC} = 3.0 V to 3.6 V	1.9	3.3	5.3	ns
		V_{CC} = 2.7 V	2.7	4.0	5.6	ns

Table 7. Dynamic characteristics *...continued*

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

Symbol	Parameter	Conditions		T_{amb} = –40 °C to +85 °C			Unit
				Min	Typ[1]	Max	
t_{PHZ}	HIGH to OFF-state propagation delay	$\overline{OE}$ to Qn; see Figure 7					
		V_{CC} = 3.0 V to 3.6 V		1.8	3.2	5.1	ns
		V_{CC} = 2.7 V		1.9	3.5	5.3	ns
t_{PLZ}	LOW to OFF-state propagation delay	$\overline{OE}$ to Qn; see Figure 8					
		V_{CC} = 3.0 V to 3.6 V		2.1	3.2	4.6	ns
		V_{CC} = 2.7 V		2.0	3.0	4.6	ns
t_{su}	set-up time	Dn to LE; see Figure 9	[2]				
		V_{CC} = 3.0 V to 3.6 V		1.1	-	-	ns
		V_{CC} = 2.7 V		1.0	-	-	ns
t_h	hold time	Dn to LE; see Figure 9	[3]				
		V_{CC} = 3.0 V to 3.6 V		1.4	-	-	ns
		V_{CC} = 2.7 V		1.4	-	-	ns
t_W	pulse width	LE input HIGH; see Figure 5	[4]				
		V_{CC} = 3.0 V to 3.6 V		3.0	-	-	ns
		V_{CC} = 2.7 V		3.0	-	-	ns

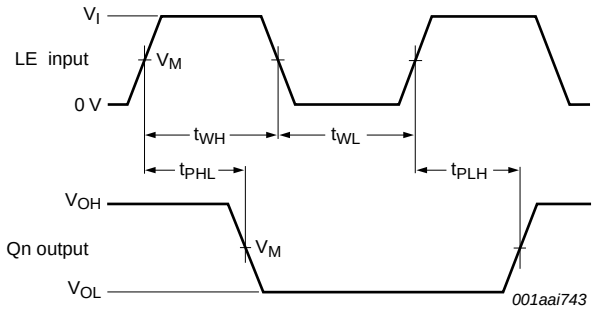
[1] Typical values are measured at T_{amb} = 25 °C and V_{CC} = 3.3 V and 2.7 V respectively.

[2] t_{su} is the same as $t_{su(L)}$ and $t_{su(H)}$.

[3] t_h is the same as $t_{h(L)}$ and $t_{h(H)}$.

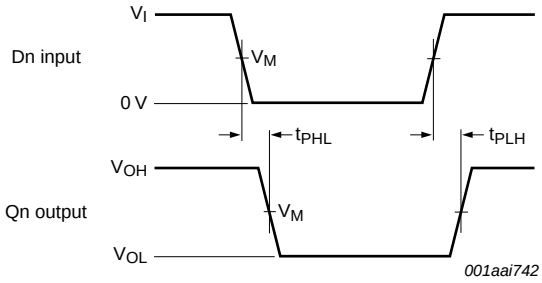
[4] t_W is the same as t_{WL} and t_{WH}.

11. Waveforms



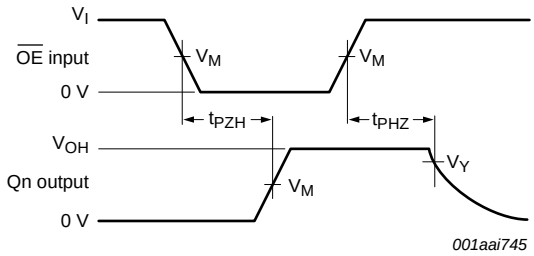
Measurement points are given in Table 8.

Fig 5. Propagation delays latch enable input (LE) to output (Qn), and latch enable (LE) pulse width



Measurement points are given in Table 8.

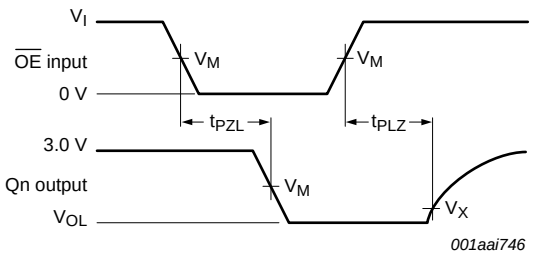
Fig 6. Propagation delay data input (Dn) to output (Qn)



Measurement points are given in Table 8.

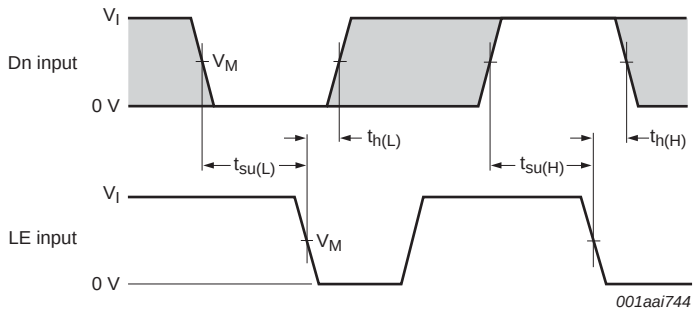
V_{OL} and V_{OH} are typical voltage output levels that occur with the output load.

Fig 7. Output enable time to HIGH-state and output disable time from HIGH-state



Measurement points are given in Table 8.

Fig 8. Output enable time to LOW-state and output disable time from LOW-state



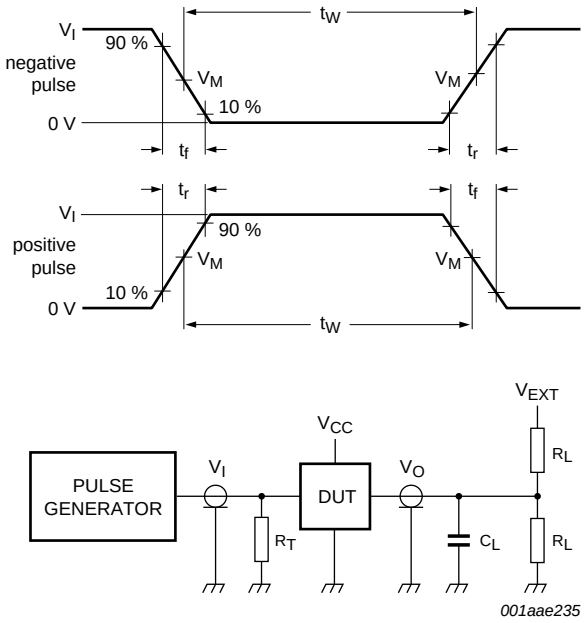
Measurement points are given in Table 8.

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

Fig 9. Data setup and hold times for data (Dn) and latch enable (LE) inputs

Table 8. Measurement points

Input	Output		
V_M	V_M	V_X	V_Y
1.5 V	1.5 V	V_{OL} + 0.3 V	V_{OH} − 0.3 V



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.

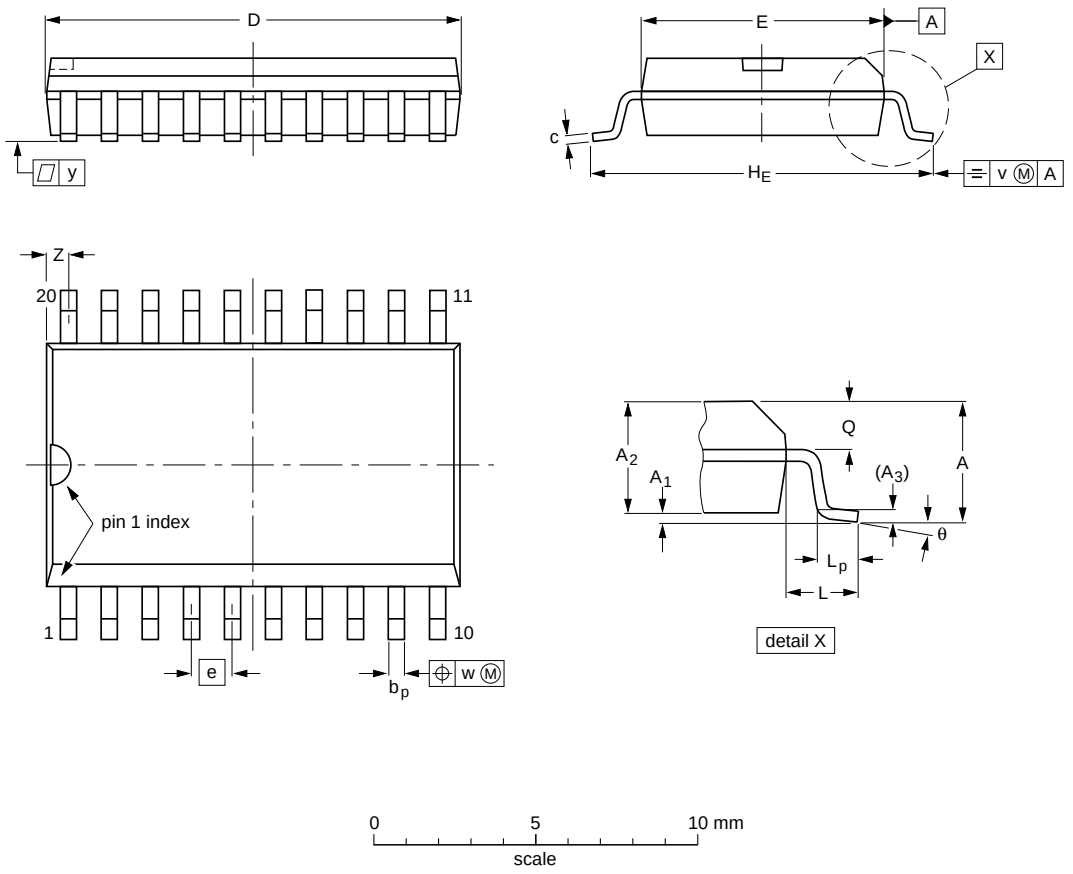
Fig 10. Test circuit for measuring switching times

Table 9. Test data

Input				Load		V_{EXT}		
V_I	f_i	t_W	t_r, t_f	C_L	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

12. Package outline

SO20: plastic small outline package; 20 leads; body width 7.5 mm **SOT163-1**



DIMENSIONS (inch dimensions are derived from the original mm dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	D (1)	E (1)	e	H_E	L	L_p	Q	v	w	y	Z (1)	θ
mm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	13.0 12.6	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8^o 0^o
inches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.51 0.49	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	

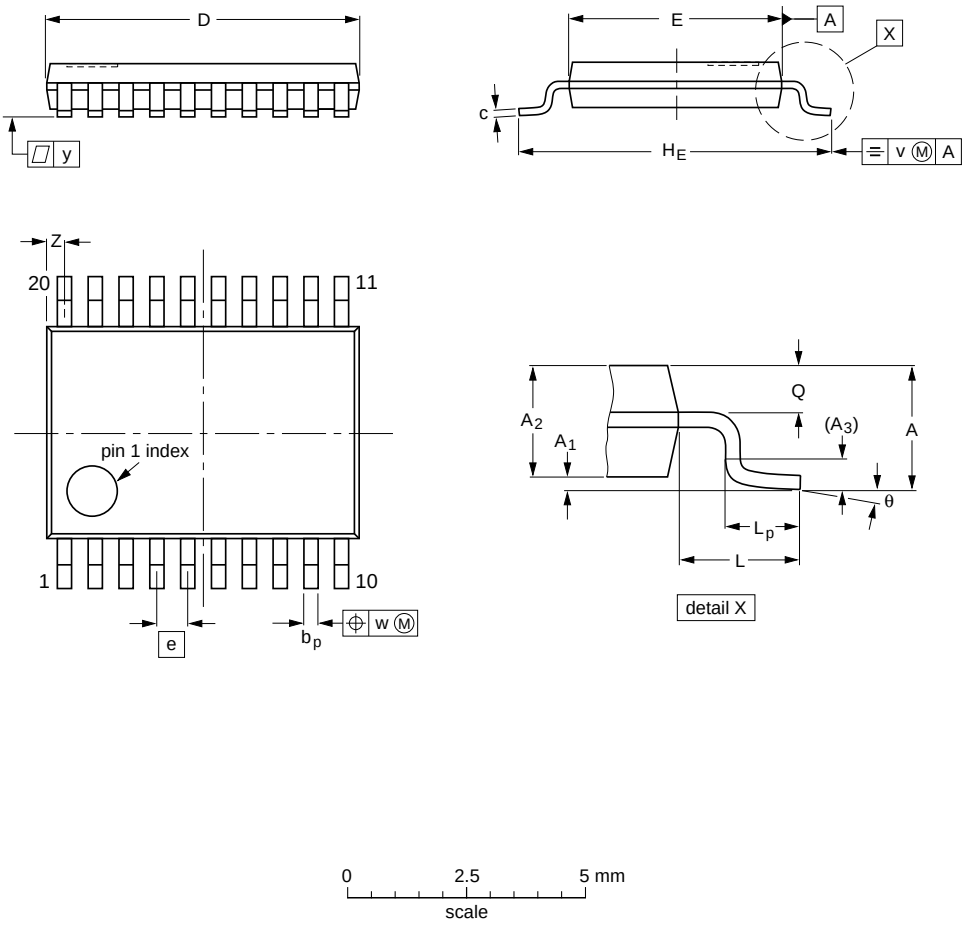
Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

OUTLINE VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT163-1	075E04	MS-013				~~99-12-27~~ 03-02-19

Fig 11. Package outline SOT163-1 (SO20)

TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm **SOT360-1**



DIMENSIONS (mm are the original dimensions)

UNIT	A max.	A_1	A_2	A_3	b_p	c	D (1)	E (2)	e	H_E	L	L_p	Q	v	w	y	Z (1)	θ
mm	1.1	0.15 0.05	0.95 0.80	0.25	0.30 0.19	0.2 0.1	6.6 6.4	4.5 4.3	0.65	6.6 6.2	1	0.75 0.50	0.4 0.3	0.2	0.13	0.1	0.5 0.2	8^o 0^o

Notes

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 VERSION	REFERENCES				EUROPEAN PROJECTION	ISSUE DATE
	IEC	JEDEC	JEITA			
SOT360-1		MO-153				~~99-12-27~~ 03-02-19

Fig 12. Package outline SOT360-1 (TSSOP20)

13. Abbreviations

Table 10. Abbreviations

Acronym	Description
BiCMOS	Bipolar Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
HBM	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
74LVT373 v.3	20111121	Product data sheet	-	74LVT373 v.2
Modifications:	• Legal pages updated.			
74LVT373 v.2	20110916	Product data sheet	-	74LVT373 v.1
74LVT373 v.1	19930701	Product data sheet	-	-

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. Contact information

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For sales office addresses, please send an email to: **salesaddresses@nxp.com**

17. Contents

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