# 74LV1T34

# Single supply translating buffer

Rev. 2 — 3 December 2019

Product data sheet

### 1. General description

The 74LV1T34 is a single, level translating buffer. The low threshold inputs support 1.8 V input logic at  $V_{CC}$  = 3.3 V and can be used in 1.8 V to 3.3 V level up translation. In addition, the 5 V tolerant input pins enable level down translation (3.3 V to 2.5 V output at  $V_{CC}$  = 2.5 V). The output level is referenced to the supply voltage and supports 1.8 V, 2.5 V, 3.3 V and 5.0 V CMOS levels. The wide  $V_{CC}$  range permits the generation of output levels to connect to controllers or processors.

#### 2. Features and benefits

- Single supply voltage translator at 1.8 V, 2.5 V, 3.3 V and 5.0 V
- Up translation
  - 1.2 V to 1.8 V at V<sub>CC</sub> = 1.8 V
  - 1.5 V to 2.5 V at  $V_{CC}$  = 2.5 V
  - 1.8 V to 3.3 V at V<sub>CC</sub> = 3.3 V
  - 3.3 V to 5.0 V at V<sub>CC</sub> = 5.0 V
- Down translation
  - 3.3 V to 1.8 V at V<sub>CC</sub> = 1.8 V
  - 3.3 V to 2.5 V at V<sub>CC</sub> = 2.5 V
  - 5.0 V to 3.3 V at V<sub>CC</sub> = 3.3 V
- 5 V tolerant inputs
- Latch-up performance exceeds 250 mA per JESD 78 Class II
- ESD protection:
  - HBM ANSI/ESDA/JEDEC JS-001 Class 2 exceeds 2 kV
  - CDM JESD22-C101F exceeds 1 kV
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

### 3. Applications

- · Portable applications
- PC and notebooks
- Industrial controller
- Telecom



### Single supply translating buffer

### 4. Ordering information

**Table 1. Ordering information** 

Type number	Package	Package								
	Temperature range	Name	Description	Version						
74LV1T34GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1						
74LV1T34GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753						
74LV1T34GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 X 0.8 X 0.35 mm	SOT1226						

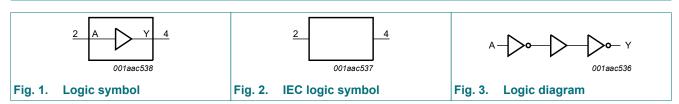
### 5. Marking

Table 2. Marking

Type number	Marking code[1]
74LV1T34GW	SQ
74LV1T34GV	SQ
74LV1T34GX	SQ

<sup>[1]</sup> The pin 1 indicator is located on the lower left corner of the device, below the marking code.

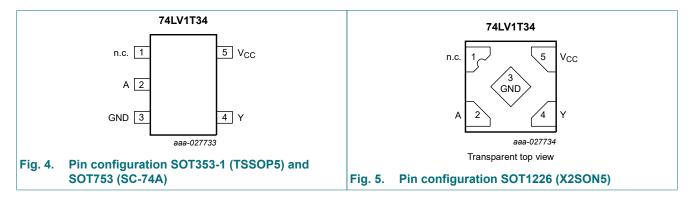
## 6. Functional diagram



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### 7. Pinning information

### 7.1. Pinning



### 7.2. Pin description

Table 3. Pin description

Symbol	Pin	Description	
n.c.	1	not connected	
A	2	data input	
GND	3	ground (0 V)	
Υ	4	data output	
V <sub>CC</sub>	5	supply voltage	

## 8. Functional description

#### Table 4. Function table

H = HIGH voltage level; L = LOW voltage level

Input	Output
A	Υ
L	L
Н	Н

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#### Single supply translating buffer

### 9. Limiting values

#### **Table 5. 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	+7.0	V
VI	input voltage	[1]	-0.5	+7.0	V
Vo	output voltage	output HIGH or LOW state [2][3]	-0.5	V <sub>CC</sub> + 0.5	V
		output in power-off state [2]	-0.5	4.6	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-20	-	mA
I <sub>OK</sub>	output clamping current	$V_O < 0 \text{ V or } V_O > V_{CC}$	-	±20	mA
Io	output current	V <sub>O</sub> = 0 V to V <sub>CC</sub>	-	±25	mA
I <sub>CC</sub>	supply current		-	50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C} \text{ to } +125  ^{\circ}\text{C}$ [4]	-	250	mW

<sup>[1]</sup> If the input current ratings are observed, the minimum input voltage ratings may be exceeded.

### 10. Recommended operating conditions

#### Table 6. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$V_{CC}$	supply voltage		1.6	5.0	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	output HIGH or LOW state	0	-	V <sub>CC</sub>	V
T <sub>amb</sub>	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.8 V to 5.0 V	-	-	20	ns/V

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<sup>[2]</sup> If the output current ratings are observed, the output voltage ratings may be exceeded.

<sup>[3]</sup> This value is limited to 7 V maximum.

<sup>[4]</sup> For SOT353-1 package: above 74 °C the value of P<sub>tot</sub> derates linearly with 3.3 mW/K. For SOT753 package: above 85 °C the value of P<sub>tot</sub> derates linearly with 3.8 mW/K. For SOT1226 package: above 67 °C the value of P<sub>tot</sub> derates linearly with 3.0 mW/K.

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### 11. Static characteristics

**Table 7. Static characteristics** 

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	25 °	C	-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Max	Min	Max	Min	Max	
V <sub>IH</sub>	HIGH-level	V <sub>CC</sub> = 1.65 V to 1.8 V	0.94	-	1.0	-	1.0	-	٧
	input voltage	V <sub>CC</sub> = 2.0 V	0.99	-	1.03	-	1.03	-	٧
		V <sub>CC</sub> = 2.25 V to 2.5 V	1.135	-	1.18	-	1.18	-	٧
		V <sub>CC</sub> = 2.75 V	1.21	-	1.23	-	1.23	-	V
		V <sub>CC</sub> = 3.0 V to 3.3 V	1.35	-	1.37	-	1.37	-	٧
		V <sub>CC</sub> = 3.6 V	1.47	-	1.48	-	1.48	-	٧
		V <sub>CC</sub> = 4.5 V to 5.0 V	2.02	-	2.03	-	2.03	-	٧
		V <sub>CC</sub> = 5.5 V	2.10	-	2.11	-	2.11	-	٧
V <sub>IL</sub>	LOW-level	V <sub>CC</sub> = 1.65 V to 2.0 V	-	0.58	-	0.55	-	0.55	٧
	input voltage	V <sub>CC</sub> = 2.25 V to 2.75 V	-	0.75	-	0.71	-	0.71	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	0.80	-	0.65	-	0.65	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	0.80	-	0.80	-	0.80	٧
V <sub>OH</sub>	HIGH-level	$V_I = V_{IH}$ or $V_{IL}$ ;							
	output voltage	V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = -20 μA	V <sub>CC</sub> -0.1	-	V <sub>CC</sub> -0.1	-	V <sub>CC</sub> -0.1	-	V
		V <sub>CC</sub> = 1.65 V; I <sub>O</sub> = -2 mA	1.28	-	1.21	-	1.21	-	V
		V <sub>CC</sub> = 1.8 V; I <sub>O</sub> = -2 mA	1.5	-	1.45	-	1.45	-	٧
		$V_{CC} = 2.3 \text{ V}; I_{O} = -2.3 \text{ mA}$	2.0	-	2.0	-	2.0	-	V
		$V_{CC} = 2.3 \text{ V}; I_{O} = -3 \text{ mA}$	2.0	-	1.93	-	1.93	-	V
		$V_{CC}$ = 2.5 V; $I_{O}$ = -3 mA	2.25	-	2.15	-	2.15	-	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = -3 \text{ mA}$	2.78	-	2.7	-	2.7	-	٧
		V <sub>CC</sub> = 3.0 V; I <sub>O</sub> = -5.5 mA	2.6	-	2.49	-	2.49	-	٧
		$V_{CC} = 3.3 \text{ V}; I_{O} = -5.5 \text{ mA}$	2.9	-	2.8	-	2.8	-	V
		V <sub>CC</sub> = 4.5 V; I <sub>O</sub> = -4 mA	4.2	-	4.1	-	4.1	-	٧
		$V_{CC}$ = 4.5 V; $I_{O}$ = -8 mA	4.1	-	3.95	-	3.95	-	٧
		$V_{CC} = 5.0 \text{ V}; I_{O} = -8 \text{ mA}$	4.6	-	4.5	-	4.5	-	V
V <sub>OL</sub>	LOW-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>							
	output voltage	V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = 20 μA	-	0.1	-	0.1	-	0.1	V
		V <sub>CC</sub> = 1.65 V; I <sub>O</sub> = 2 mA	-	0.2	-	0.25	-	0.25	V
		$V_{CC}$ = 2.3 V; $I_{O}$ = 2.3 mA	-	0.1	-	0.15	-	0.15	V
		$V_{CC} = 2.3 \text{ V}; I_{O} = 3 \text{ mA}$	-	0.15	-	0.2	-	0.2	٧
		$V_{CC} = 3.0 \text{ V}; I_{O} = 3 \text{ mA}$	-	0.1	-	0.15	-	0.15	V
		$V_{CC} = 3.0 \text{ V}; I_{O} = 5.5 \text{ mA}$	-	0.2	-	0.252	-	0.252	V
		V <sub>CC</sub> = 4.5 V; I <sub>O</sub> = 4 mA	-	0.15	-	0.2	-	0.2	٧
		V <sub>CC</sub> = 4.5 V; I <sub>O</sub> = 8 mA	-	0.3	-	0.35	-	0.35	V
lı	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 0$ V to 5.5 V	-	±0.1	-	±1	-	±1	μΑ
lcc	supply current	V <sub>I</sub> = V <sub>CC</sub> or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.8 V, 2.5 V, 3.3 V, 5.0 V	-	1	-	10	-	10	μA

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Symbol	Parameter	Conditions	25 °	25 °C		+85 °C	-40 °C to	+125 °C	Unit
			Min	Max	Min	Max	Min	Max	
ΔI <sub>CC</sub>	additional supply current	per input pin; $V_{CC}$ = 1.8 V; $V_I$ = 0.3 V or 1.1 V; $I_O$ = 0 A; other pins at $V_{CC}$ or GND	-	10	-	10	-	10	μΑ
		per input pin; $V_{CC}$ = 5.5 V; $V_I$ = 0.3 V or 3.4 V; $I_O$ = 0 A; other pins at $V_{CC}$ or GND	-	1.35	-	1.5	-	1.5	mA

### 12. Dynamic characteristics

**Table 8. Dynamic characteristics** 

GND = 0 V. For test circuit, see Fig. 7.

Symbol	Parameter	Conditions		25 °C		-40 °C to	+85 °C	-40 °C to	+125 °C	Unit
			Min	Тур	Max	Min	Max	Min	Max	
t <sub>pd</sub>	propagation	A, B to Y; see <u>Fig. 6</u> [1]								
	delay	$V_{CC} = 1.8 \text{ V}; C_L = 15 \text{ pF}$	-	6.3	9.4	-	10.6	-	11.4	ns
		$V_{CC} = 1.8 \text{ V}; C_L = 30 \text{ pF}$	-	7.4	10.5	-	12.0	-	12.8	ns
		V <sub>CC</sub> = 2.5 V; C <sub>L</sub> = 15 pF	-	4.5	6.4	-	7.2	-	7.8	ns
		$V_{CC} = 2.5 \text{ V}; C_L = 30 \text{ pF}$	-	5.3	7.2	-	8.2	-	8.9	ns
		V <sub>CC</sub> = 3.3 V; C <sub>L</sub> = 15 pF	-	3.7	5.2	-	5.9	-	6.3	ns
		$V_{CC} = 3.3 \text{ V}; C_L = 30 \text{ pF}$	-	4.3	5.9	-	6.8	-	7.1	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 15 pF	-	3.1	3.9	-	4.3	-	4.5	ns
		V <sub>CC</sub> = 5.0 V; C <sub>L</sub> = 30 pF	-	3.6	4.5	-	4.9	-	5.2	ns
Cı	input capacitance	$V_I = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	1.5	10	-	10	-	10	pF
Co	output capacitance	$V_O = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	2.5	-	-	-	-	-	pF
C <sub>PD</sub>	power dissipation	per buffer; $V_I$ = GND to $V_{CC}$ ; [2] $C_L$ = 30 pF; f = 10 MHz								
	capacitance	V <sub>CC</sub> = 1.8 V	-	4.2	-	-	-	-	-	pF
		V <sub>CC</sub> = 2.5 V	-	5.5	-	-	-	-	-	pF
		V <sub>CC</sub> = 3.3 V	-	7.4	-	-	-	-	-	pF
		V <sub>CC</sub> = 5.0 V	-	11.5	-	-	-	-	-	pF

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

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

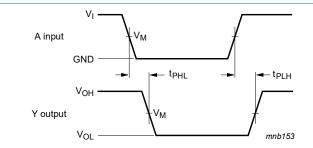
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;  $\sum (C_L \times V_{CC}^2 \times f_o)$  = sum of the outputs.

 $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

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#### 12.1. Waveforms and test circuit



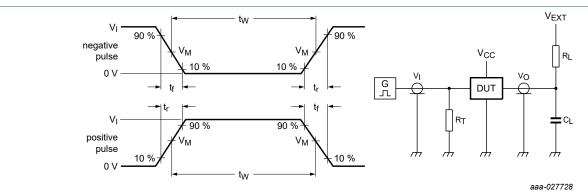
Measurement points are given in Table 9.

V<sub>OL</sub> and V<sub>OH</sub> are typical voltage output levels that occur with the output load.

Fig. 6. The input A to output Y propagation delays

**Table 9. Measurement points** 

Input	Output
$V_{M}$	$V_{M}$
0.5V <sub>I</sub>	0.5V <sub>CC</sub>



Test data is given in Table 10.

Definitions test circuit:

 $R_T$  = Termination resistance should be equal to output impedance  $Z_o$  of the pulse generator

C<sub>L</sub> = Load capacitance including jig and probe capacitance

R<sub>L</sub> = Load resistance

V<sub>EXT</sub> = External voltage for measuring switching times

Fig. 7. Test circuit for measuring switching times

Table 10. Test data

Supply voltage Input			Load		V <sub>EXT</sub>			
V <sub>CC</sub>	Vı	Δt/ΔV [1]	f <sub>max</sub>	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
1.8 V	V <sub>CC</sub>	≤ 1.0 ns/V	15 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>
2.5 V	V <sub>CC</sub>	≤ 1.0 ns/V	25 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>
3.3 V	3 V	≤ 1.0 ns/V	50 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>
5.0 V	3 V	≤ 1.0 ns/V	50 MHz	15 pF, 30 pF	1ΜΩ	GND	GND	V <sub>CC</sub>

[1]  $dV/dt \ge 1.0 V/ns$ 

#### Single supply translating buffer

### 13. Package outline

### TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm SOT353-1 = v M A ⊕ w M detail X 3 mm scale **DIMENSIONS (mm are the original dimensions)** $A_2$ Α3 $D^{(1)}$ $E^{(1)}$ L $Z^{(1)}$ UNIT $\mathsf{H}_{\mathsf{E}}$ θ Lp e<sub>1</sub> max 0.30 0.25 1.35 0.60 mm 1.1 0.15 0.65 1.3 0.425 0.3 0.1 0.1

1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

OUTLINE		REFER	ENCES	EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA	PROJECTION	ISSUE DATE
SOT353-1		MO-203	SC-88A	$ \  \   \bigoplus   \big($	<del>00-09-01</del> 03-02-19

Package outline SOT353-1 (TSSOP5)

### Single supply translating buffer

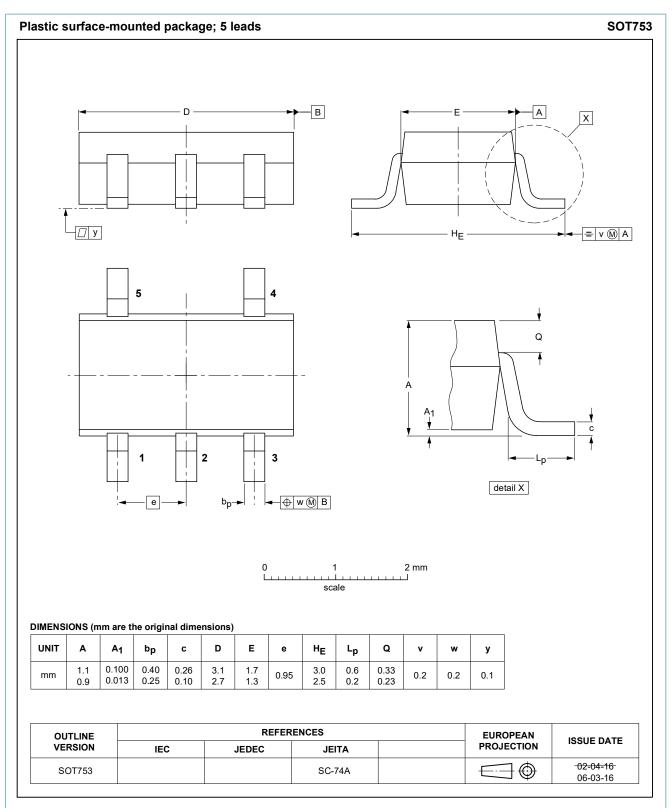


Fig. 9. Package outline SOT753 (SC-74A)

#### Single supply translating buffer

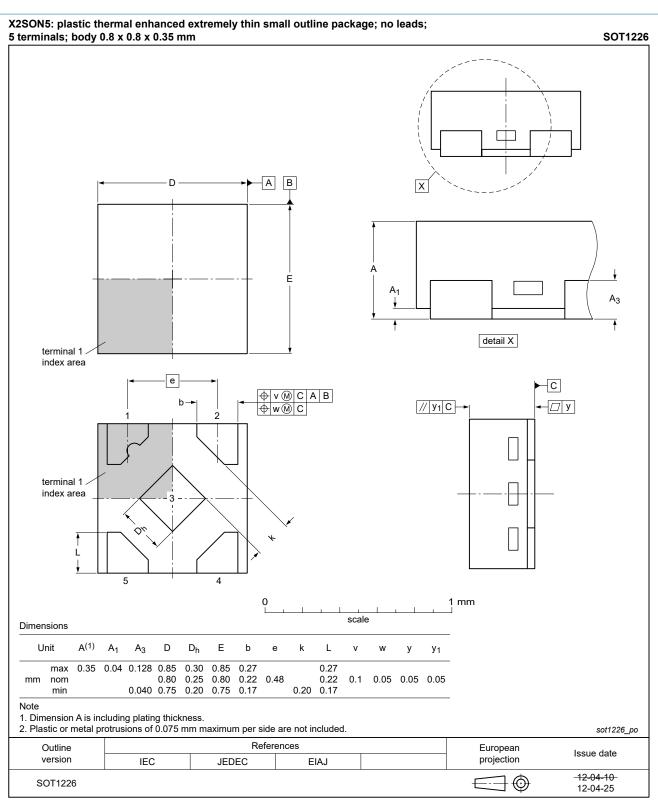


Fig. 10. Package outline SOT1226 (X2SON5)

### Single supply translating buffer

### 14. Abbreviations

#### **Table 11. Abbreviations**

Acronym	Description
CDM	Charge Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model

### 15. Revision history

#### **Table 12. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV1T34 v.2	20191203	Product data sheet	-	74LV1T34 v.1
Modifications:	<ul><li>Type number 7</li><li>Table 5: Deratir</li></ul>			
74LV1T34 v.1	20171128	Product data sheet	-	-

#### Single supply translating buffer

### 16. 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.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

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