74LV1T125

Single supply translating buffer/line driver; 3-state

Rev. 2 — 3 December 2019

Product data sheet

1. General description

The 74LV1T125 is a single, level translating buffer/line driver with 3-state output. 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 down translation (3.3 V to 2.5 V output at V_{CC} = 2.5 V). The 3-state output is controlled by the output enable input (\overline{OE}). A HIGH-level at \overline{OE} causes the output to assume a high-impedance OFF-state. 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_{CC} = 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_{CC} = 3.3 V
 - 3.3 V to 5.0 V at V_{CC} = 5.0 V
- Down translation
 - 3.3 V to 1.8 V at V_{CC} = 1.8 V
 - 3.3 V to 2.5 V at V_{CC} = 2.5 V
 - 5.0 V to 3.3 V at V_{CC} = 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-C101 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



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4. Ordering information

Table 1. Ordering information

Type number	Package									
	Temperature range	Name	Description	Version						
74LV1T125GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1						
74LV1T125GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753						
74LV1T125GX	-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						

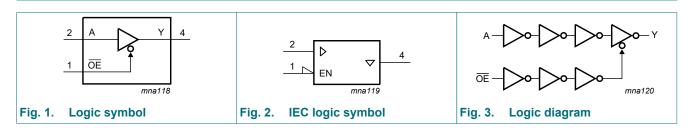
5. Marking

Table 2. Marking

Type number	Marking code[1]
74LV1T125GW	SN
74LV1T125GV	SN
74LV1T125GX	SN

^[1] 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
ŌE	1	output enable input
A	2	data input
GND	3	ground (0 V)
Υ	4	data output
V _{CC}	5	supply voltage

8. Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level; \ X = don't \ care; \ Z = high-impedance \ OFF-state.$

Input OE	Output	
ŌĒ	A	Υ
L	L	L
L	Н	Н
Н	X	Z

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

^[1] 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		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.8 V to 5.0 V	-	-	20	ns/V

^[2] If the output current ratings are observed, the output voltage ratings may be exceeded.

^[3] This value is limited to 7 V maximum.

^[4] For SOT353-1 package: above 74 °C the value of P_{tot} derates linearly with 3.3 mW/K. For SOT753 package: above 85 °C the value of P_{tot} derates linearly with 3.8 mW/K. For SOT1226 package: above 67 °C the value of P_{tot} 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		Uni
			Min	Max	Min	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 1.65 V to 1.8 V	0.94	-	1.0	-	1.0	-	V
	input voltage	V _{CC} = 2.0 V	0.99	-	1.03	-	1.03	-	V
		V _{CC} = 2.25 V to 2.5 V	1.135	-	1.18	-	1.18	-	V
		V _{CC} = 2.75 V	1.21	-	1.23	-	1.23	-	V
		V _{CC} = 3.0 V to 3.3 V	1.35	-	1.37	-	1.37	-	V
		V _{CC} = 3.6 V	1.47	-	1.48	-	1.48	-	V
		V _{CC} = 4.5 V to 5.0 V	2.02	-	2.03	-	2.03	-	٧
		V _{CC} = 5.5 V	2.10	-	2.11	-	2.11	-	٧
V _{IL}	LOW-level	V _{CC} = 1.65 V to 2.0 V	-	0.58	-	0.55	-	0.55	٧
	input voltage	V _{CC} = 2.25 V to 2.75 V	-	0.75	-	0.71	-	0.71	٧
		V _{CC} = 3.0 V to 3.6 V	-	0.80	-	0.65	-	0.65	V
		V _{CC} = 4.5 V to 5.5 V	-	0.80	-	0.80	-	0.80	V
V _{OH}	HIGH-level	$V_I = V_{IH}$ or V_{IL} ;							
	output voltage	V_{CC} = 1.65 V to 5.5 V; I_{O} = -20 μ A	V _{CC} -0.1	-	V _{CC} -0.1	-	V _{CC} -0.1	-	V
		V _{CC} = 1.65 V; I _O = -2 mA	1.28	-	1.21	-	1.21	-	V
		V _{CC} = 1.8 V; I _O = -2 mA	1.5	-	1.45	-	1.45	-	V
		V _{CC} = 2.3 V; I _O = -2.3 mA	2.0	-	2.0	-	2.0	-	V
		V _{CC} = 2.3 V; I _O = -3 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 V; I _O = -3 mA	2.78	-	2.7	-	2.7	-	V
		V _{CC} = 3.0 V; I _O = -5.5 mA	2.6	-	2.49	-	2.49	-	V
		V _{CC} = 3.3 V; I _O = -5.5 mA	2.9	-	2.8	-	2.8	-	V
		V _{CC} = 4.5 V; I _O = -4 mA	4.2	-	4.1	-	4.1	-	V
		V _{CC} = 4.5 V; I _O = -8 mA	4.1	-	3.95	-	3.95	-	V
		V _{CC} = 5.0 V; I _O = -8 mA	4.6	-	4.5	-	4.5	-	V
V _{OL}	LOW-level	V _I = V _{IH} or V _{IL}							
	output voltage	V _{CC} = 1.65 V to 5.5 V; I _O = 20 μA	-	0.1	-	0.1	-	0.1	V
		V _{CC} = 1.65 V; I _O = 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 V; I _O = 3 mA	-	0.15	-	0.2	-	0.2	V
		V _{CC} = 3.0 V; I _O = 3 mA	-	0.1	-	0.15	-	0.15	V
		V _{CC} = 3.0 V; I _O = 5.5 mA	-	0.2	-	0.252	-	0.252	V
		V _{CC} = 4.5 V; I _O = 4 mA	-	0.15	-	0.2	-	0.2	V
		V _{CC} = 4.5 V; I _O = 8 mA	-	0.3	-	0.35	-	0.35	V
I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	-	±1	-	±1	μA
OZ	OFF-state output current		-	±0.25	-	±2.5	-	±2.5	μA

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Symbol	Parameter Conditions		25 °C		-40 °C to	o +85 °C	-40 °C to	Unit	
			Min	Max	Min	Max	Min	Max	
I _{CC}	supply current	V _I = V _{CC} or GND; I _O = 0 A; V _{CC} = 1.8 V, 2.5 V, 3.3 V, 5.0 V	-	1	-	10	-	10	μΑ
ΔI _{CC}	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. 8.

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
				Тур	Max	Min	Max	Min	Max	
t _{pd}	propagation	A to Y; see Fig. 6 [1]								
	delay	V _{CC} = 1.8 V; C _L = 15 pF	-	6.5	9.6	-	10.8	-	11.6	ns
		V _{CC} = 1.8 V; C _L = 30 pF	-	7.6	10.8	-	12.2	-	13.1	ns
		V _{CC} = 2.5 V; C _L = 15 pF	-	4.6	6.6	-	7.5	-	8.0	ns
		V _{CC} = 2.5 V; C _L = 30 pF	-	5.3	7.4	-	8.4	-	9.1	ns
		V _{CC} = 3.3 V; C _L = 15 pF	-	3.8	5.4	-	6.0	-	6.4	ns
		V _{CC} = 3.3 V; C _L = 30 pF	-	4.4	6.0	-	6.8	-	7.3	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	3.2	4.1	-	4.4	-	4.7	ns
		V _{CC} = 5.0 V; C _L = 30 pF	-	3.6	4.6	-	5.1	-	5.4	ns
t _{en}	enable time	OE to Y; see Fig. 7 [1]								
		V _{CC} = 1.8 V; C _L = 15 pF	-	7.8	10.7	-	12.1	-	12.9	ns
		V _{CC} = 1.8 V; C _L = 30 pF	-	9.0	12.6	-	14.3	-	15.3	ns
		V _{CC} = 2.5 V; C _L = 15 pF	-	5.5	7.1	-	8.0	-	8.6	ns
		V _{CC} = 2.5 V; C _L = 30 pF	-	6.3	8.3	-	9.3	-	10.0	ns
		V _{CC} = 3.3 V; C _L = 15 pF	-	4.5	5.6	-	6.3	-	6.8	ns
		V _{CC} = 3.3 V; C _L = 30 pF	-	5.1	6.4	-	7.2	-	7.7	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	3.2	4.1	-	4.6	-	4.8	ns
		V _{CC} = 5.0 V; C _L = 30 pF	-	3.7	4.7	-	5.3	-	5.5	ns
t _{dis}	disable time	OE to Y; see Fig. 7 [1]								
		V _{CC} = 1.8 V; C _L = 15 pF	-	7.6	9.7	-	10.7	-	11.3	ns
		V _{CC} = 1.8 V; C _L = 30 pF	-	10.5	12.9	-	14.0	-	14.7	ns
		V _{CC} = 2.5 V; C _L = 15 pF	-	5.5	7.0	-	7.7	-	8.1	ns
		V _{CC} = 2.5 V; C _L = 30 pF	-	7.4	9.0	-	10.0	-	10.3	ns
		V _{CC} = 3.3 V; C _L = 15 pF	-	4.5	5.8	-	6.4	-	6.7	ns
		V _{CC} = 3.3 V; C _L = 30 pF	-	5.9	7.5	-	8.1	-	8.6	ns
		V _{CC} = 5.0 V; C _L = 15 pF	-	4.0	5.5	-	5.9	-	6.2	ns
		V _{CC} = 5.0 V; C _L = 30 pF	-	5.0	6.5	-	6.9	-	7.3	ns

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Symbol	Parameter	Conditions 25 °		25 °C		-40 °C to	+85 °C	-40 °C to	Unit	
				Тур	Max	Min	Max	Min	Max	
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 _{PD}	power dissipation	per buffer; V_I = GND to V_{CC} ; [2] C_L = 30 pF; f = 10 MHz								
	capacitance	V _{CC} = 1.8 V	-	4.1	-	-	-	-	-	pF
		V _{CC} = 2.5 V	-	5.3	-	-	-	-	-	pF
		V _{CC} = 3.3 V	-	6.9	-	-	-	-	-	pF
		V _{CC} = 5.0 V	-	10.7	-	-	-	-	-	pF

- t_{pd} is the same as t_{PLH} and t_{PHL} , t_{en} is the same as t_{PZL} and t_{PZH} , t_{dis} is the same as t_{PLZ} and t_{PHZ} . C_{PD} is used to determine the dynamic power dissipation (P_D in μW).

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

f_i = input frequency in MHz;

f_o = output frequency in MHz;

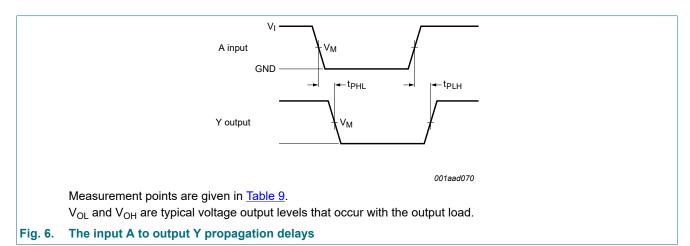
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

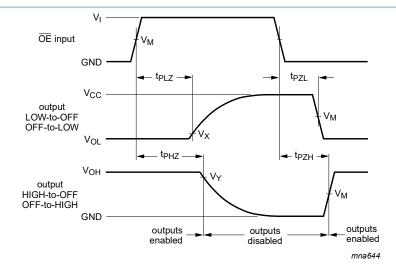
N = number of inputs switching;

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

12.1. Waveforms and test circuit



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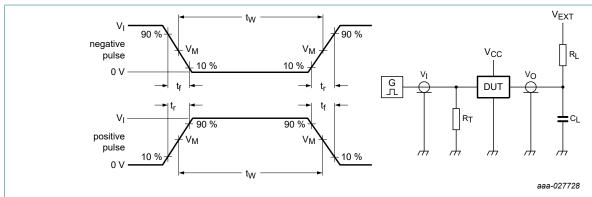
Measurement points are given in Table 9.

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

Fig. 7. 3-state enable and disable times

Table 9. Measurement points

Input	Output		
V _M	V _M	V _X	V _Y
0.5V _I	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V



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_L = Load capacitance including jig and probe capacitance

R_L = Load resistance

V_{EXT} = External voltage for measuring switching times

Fig. 8. Test circuit for measuring switching times

Table 10. Test data

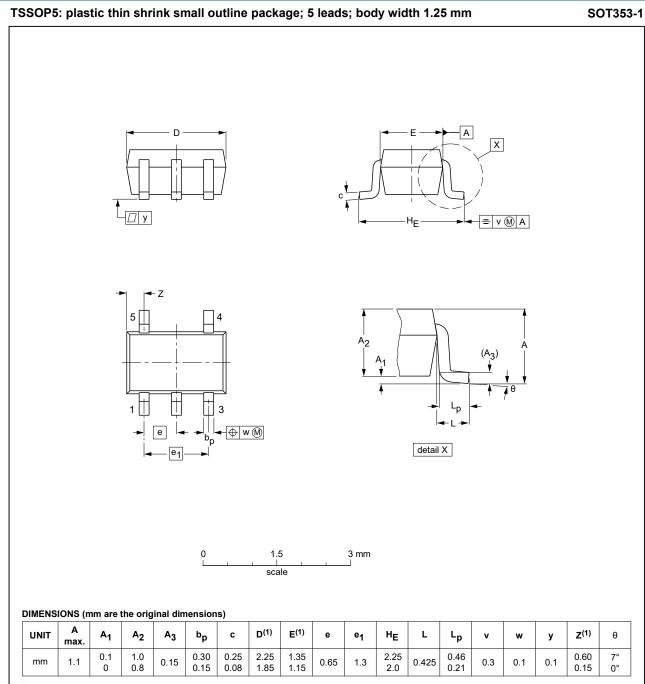
Supply voltage	Input			Load		V _{EXT}		
V _{CC}	VI	Δt/ΔV[1]	f _{max}	CL	R _L	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}
1.8 V	V _{CC}	≤ 1.0 ns/V	15 MHz	15 pF, 30 pF	1 kΩ	open	GND	V _{CC}
2.5 V	V _{CC}	≤ 1.0 ns/V	25 MHz	15 pF, 30 pF	1 kΩ	open	GND	V _{CC}
3.3 V	3 V	≤ 1.0 ns/V	50 MHz	15 pF, 30 pF	1 kΩ	open	GND	V _{CC}
5.0 V	3 V	≤ 1.0 ns/V	50 MHz	15 pF, 30 pF	1 kΩ	open	GND	V _{CC}

[1] dV/dt ≥ 1.0 V/ns

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13. Package outline



Note

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

OUTLINE VERSION	REFERENCES			EUROPEAN	ISSUE DATE	
	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT353-1		MO-203	SC-88A		$ \ \ \bigoplus $	00-09-01 03-02-19

Fig. 9. Package outline SOT353-1 (TSSOP5)

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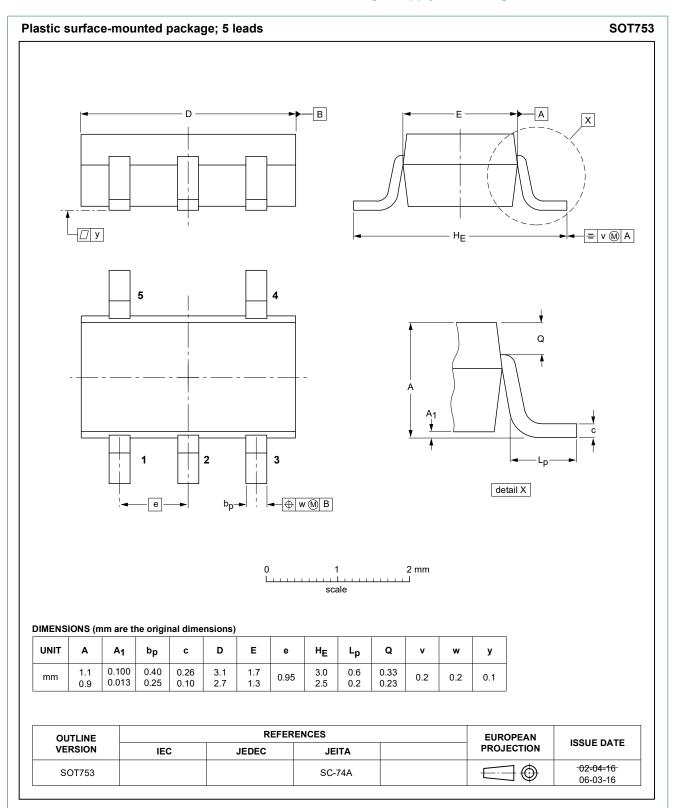


Fig. 10. Package outline SOT753 (SC-74A)

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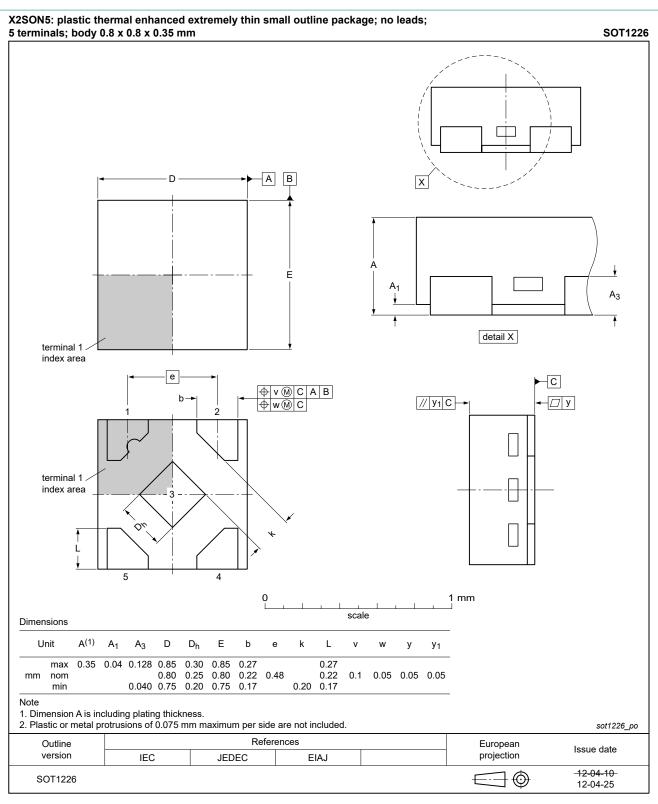


Fig. 11. Package outline SOT1226 (X2SON5)

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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
74LV1T125 v.2	20191203 Product data sheet -		-	
Modifications:	 Type number 74LV1T125GV (SOT753/SC-74A) added. Table 5: Derating values for P_{tot} total power dissipation updated. 			
74LV1T125 v.1	20171122	Product data sheet	-	-

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.

- Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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Single supply translating buffer/line driver; 3-state

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