

74LV1T08

2-input single supply translating AND gate

Rev. 2 — 3 December 2019

Product data sheet

1. General description

The 74LV1T08 is a single, level translating 2-input AND gate. 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 $V_{CC} = 1.8$ 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

4. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LV1T08GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1
74LV1T08GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753
74LV1T08GX	-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]
74LV1T08GW	SJ
74LV1T08GV	SJ
74LV1T08GX	SJ

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

6. Functional diagram

A logic symbol for a 2-input AND gate. It is a rectangle with inputs A and B on the left, and output Y on the right. Pin numbers 1, 2, and 4 are indicated. The symbol is labeled mna113.

Fig. 1. Logic symbol

A logic symbol for a 2-input AND gate. It is a rectangle with inputs 1 and 2 on the left, and output 4 on the right. The symbol is labeled mna114.

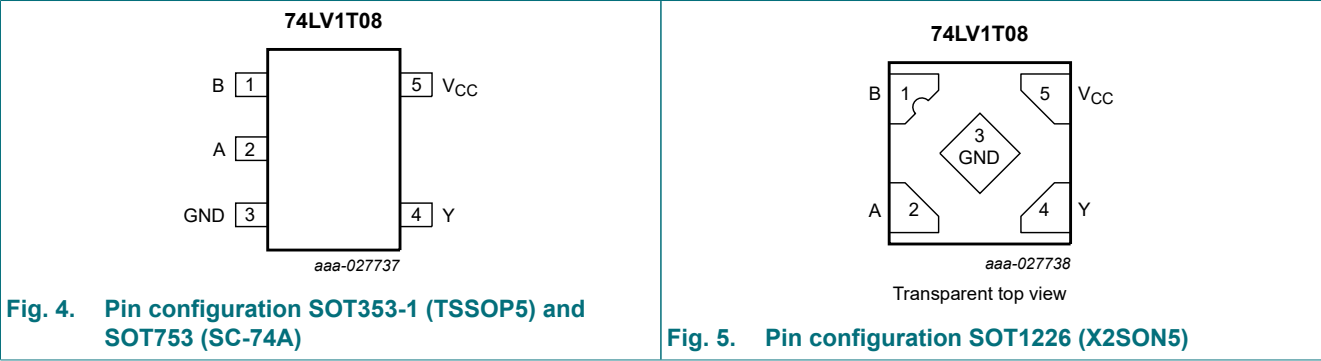
Fig. 2. Logic symbol

A logic diagram for a 2-input AND gate. It shows inputs A and B, each followed by an inverter. The outputs of the inverters are connected to an AND gate. The output of the AND gate is followed by an inverter, resulting in the final output Y. The diagram is labeled mna221.

Fig. 3. Logic diagram

7. Pinning information

7.1. Pinning



7.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
B	1	data input
A	2	data input
GND	3	ground (0 V)
Y	4	data output
V _{CC}	5	supply voltage

8. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level

Input		Output
A	B	Y
L	L	L
L	H	L
H	L	L
H	H	H

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
V_I	input voltage		-0.5	+7.0	V
V_O	output voltage	output HIGH or LOW state	-0.5	$V_{CC} + 0.5$	V
		output in power-off state	-0.5	4.6	V
I_{IK}	input clamping current	$V_I < 0$ V	-20	-	mA
I_{OK}	output clamping current	$V_O < 0$ V or $V_O > V_{CC}$	-	± 20	mA
I_O	output current	$V_O = 0$ V 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	-	250	mW

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

[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.

10. Recommended operating conditions

Table 6. Recommended operating conditions

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V_{CC}	supply voltage		1.6	5.0	5.5	V
V_I	input voltage		0	-	5.5	V
V_O	output voltage	output HIGH or LOW state	0	-	V_{CC}	V
T_{amb}	ambient temperature		-40	+25	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 1.8$ V to 5.0 V	-	-	20	ns/V

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 _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.8 V	0.94	-	1.0	-	1.0	-	V
		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	-	V
		V _{CC} = 5.5 V	2.10	-	2.11	-	2.11	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 2.0 V	-	0.58	-	0.55	-	0.55	V
		V _{CC} = 2.25 V to 2.75 V	-	0.75	-	0.71	-	0.71	V
		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 output voltage	V _I = V _{IH} or V _{IL} ;							
		V _{CC} = 1.65 V to 5.5 V; I _O = -20 µA	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 output voltage	V _I = V _{IH} or V _{IL}							
		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 _I	input leakage current	V _I = V _{CC} or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	-	±1	-	±1	µA
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	µA

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

12. Dynamic characteristics

Table 8. Dynamic characteristics

$GND = 0 \text{ V}$. For test circuit, see Fig. 7.

Symbol	Parameter	Conditions	25 °C			-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ	Max	Min	Max	Min	Max	
t_{pd}	propagation delay	A, B to Y; see Fig. 6 [1]								
		$V_{CC} = 1.8 \text{ V}$; $C_L = 15 \text{ pF}$	-	6.5	9.7	-	10.9	-	11.7	ns
		$V_{CC} = 1.8 \text{ V}$; $C_L = 30 \text{ pF}$	-	7.6	10.9	-	12.4	-	13.4	ns
		$V_{CC} = 2.5 \text{ V}$; $C_L = 15 \text{ pF}$	-	4.6	6.6	-	7.6	-	8.2	ns
		$V_{CC} = 2.5 \text{ V}$; $C_L = 30 \text{ pF}$	-	5.3	7.5	-	8.6	-	9.2	ns
		$V_{CC} = 3.3 \text{ V}$; $C_L = 15 \text{ pF}$	-	3.8	5.4	-	6.1	-	6.5	ns
		$V_{CC} = 3.3 \text{ V}$; $C_L = 30 \text{ pF}$	-	4.4	6.1	-	6.8	-	7.3	ns
		$V_{CC} = 5.0 \text{ V}$; $C_L = 15 \text{ pF}$	-	3.2	4.1	-	4.5	-	4.7	ns
		$V_{CC} = 5.0 \text{ V}$; $C_L = 30 \text{ pF}$	-	3.6	4.6	-	5.1	-	5.4	ns
C_I	input capacitance	$V_I = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	1.5	10	-	10	-	10	pF
C_O	output capacitance	$V_O = V_{CC}$ or GND; $V_{CC} = 3.3 \text{ V}$	-	2.5	-	-	-	-	-	pF
C_{PD}	power dissipation capacitance	per buffer; $V_I = \text{GND to } V_{CC}$; $C_L = 30 \text{ pF}$; $f = 10 \text{ MHz}$ [2]								
		$V_{CC} = 1.8 \text{ V}$	-	4.2	-	-	-	-	-	pF
		$V_{CC} = 2.5 \text{ V}$	-	5.3	-	-	-	-	-	pF
		$V_{CC} = 3.3 \text{ V}$	-	7.2	-	-	-	-	-	pF
		$V_{CC} = 5.0 \text{ V}$	-	11.1	-	-	-	-	-	pF

[1] t_{pd} is the same as t_{PLH} and t_{PHL} .

[2] 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;

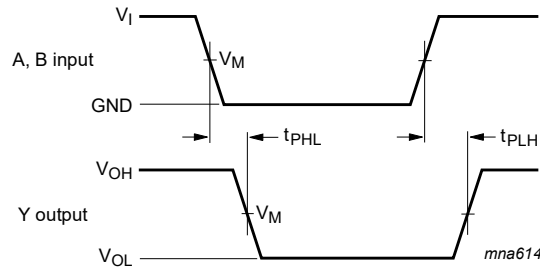
C_L = output load capacitance in pF;

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. Waveform and test circuit



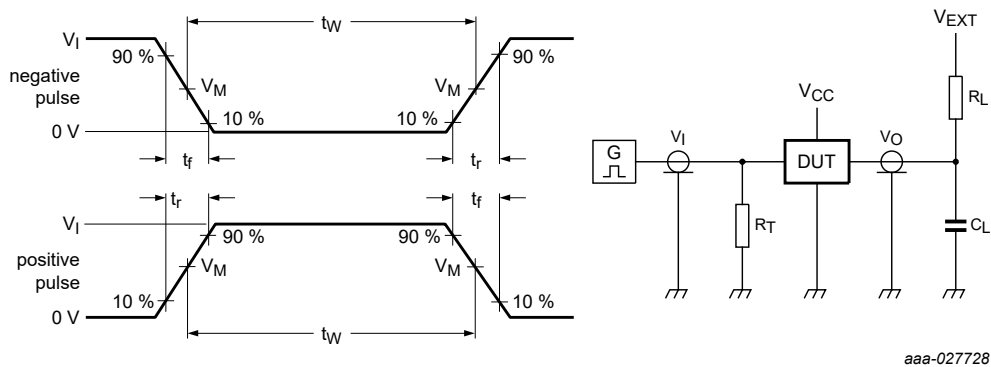
Measurement points are given in [Table 9](#).

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

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

Table 9. Measurement points

Input	Output
V_M	V_M
$0.5V_I$	$0.5V_{CC}$



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. 7. Test circuit for measuring switching times

Table 10. Test data

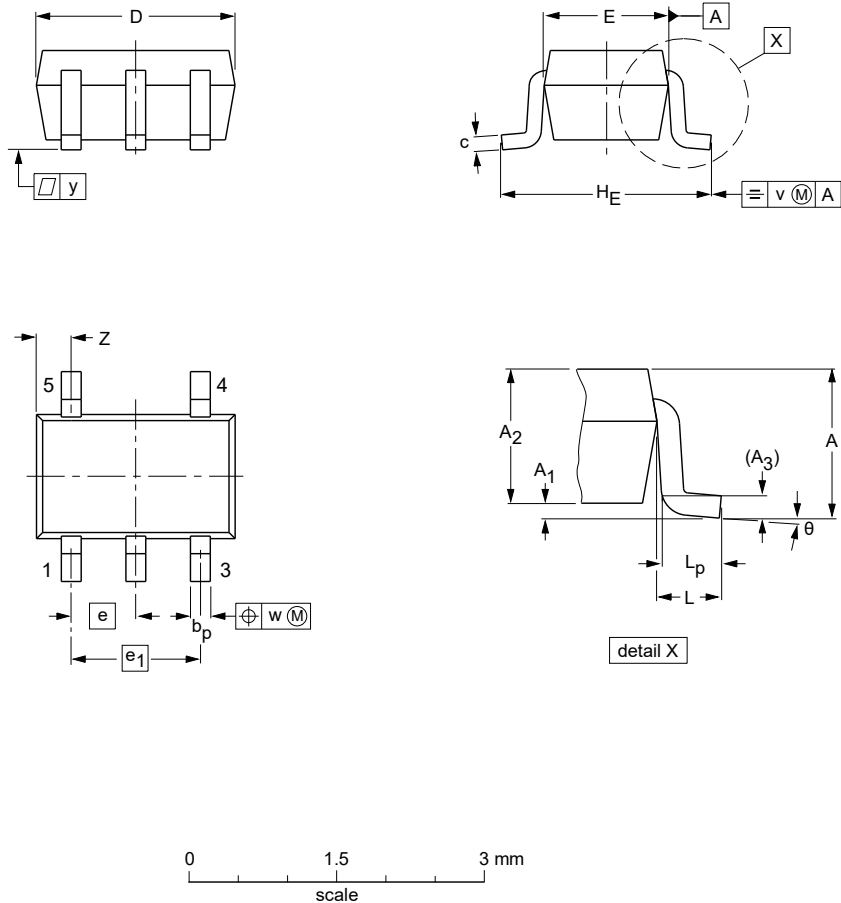
Supply voltage	Input			Load		V_{EXT}		
V_{CC}	V_I	$\Delta t/\Delta V$ [1]	f_{max}	C_L	R_L	t_{PLH}, t_{PHL}	t_{PZH}, t_{PHZ}	t_{PZL}, t_{PLZ}
1.8 V	V_{CC}	$\leq 1.0 \text{ ns/V}$	15 MHz	15 pF, 30 pF	1M Ω	GND	GND	V_{CC}
2.5 V	V_{CC}	$\leq 1.0 \text{ ns/V}$	25 MHz	15 pF, 30 pF	1M Ω	GND	GND	V_{CC}
3.3 V	3 V	$\leq 1.0 \text{ ns/V}$	50 MHz	15 pF, 30 pF	1M Ω	GND	GND	V_{CC}
5.0 V	3 V	$\leq 1.0 \text{ ns/V}$	50 MHz	15 pF, 30 pF	1M Ω	GND	GND	V_{CC}

[1] $dV/dt \geq 1.0 \text{ V/ns}$

13. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1



DIMENSIONS (mm are the original dimensions)

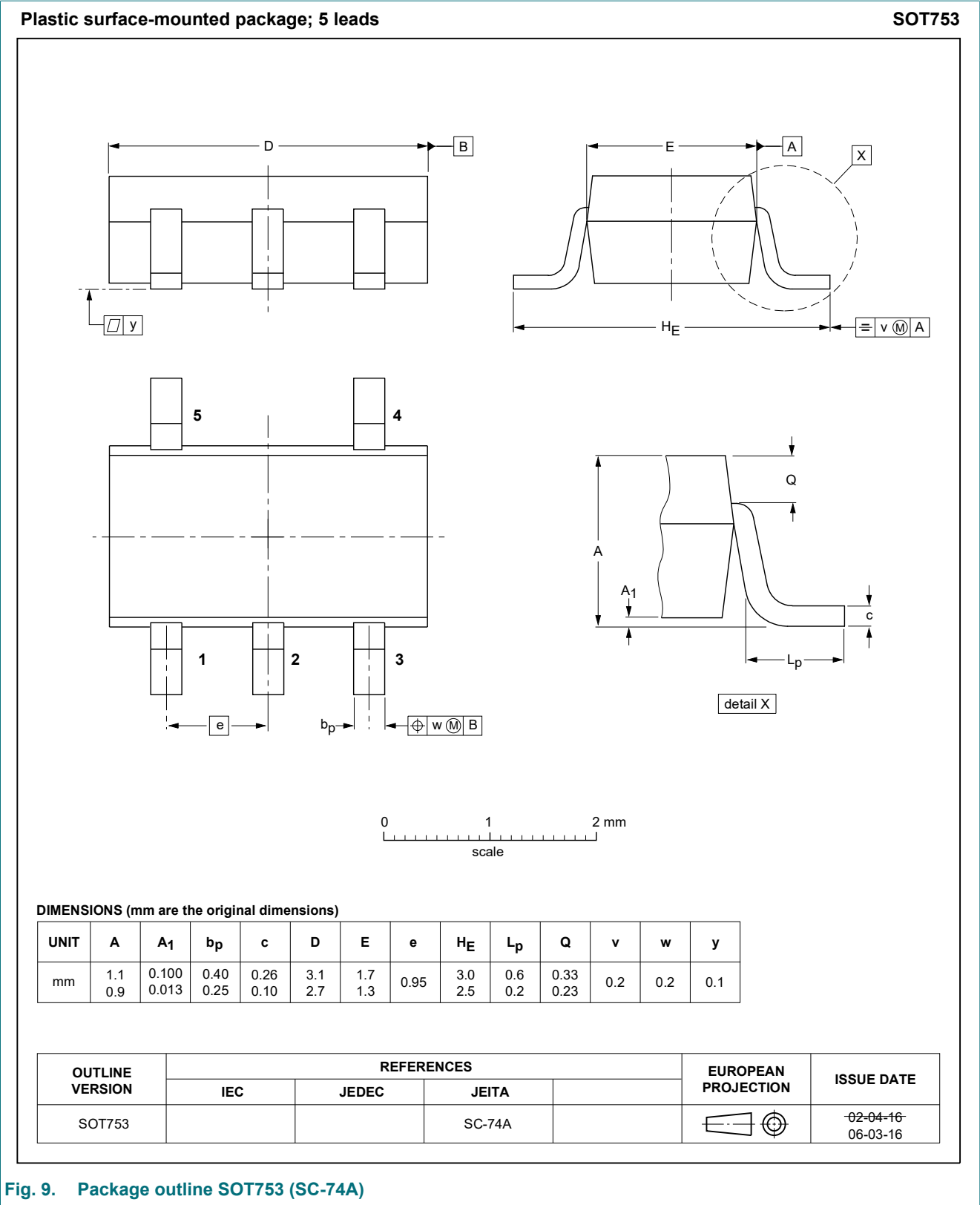
UNIT	A max.	A ₁	A ₂	A ₃	b _p	c	D ⁽¹⁾	E ⁽¹⁾	e	e ₁	H _E	L	L _p	v	w	y	Z ⁽¹⁾	θ
mm	1.1	0.1 0	1.0 0.8	0.15	0.30 0.15	0.25 0.08	2.25 1.85	1.35 1.15	0.65	1.3	2.25 2.0	0.425	0.46 0.21	0.3	0.1	0.1	0.60 0.15	7° 0°

Note

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

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

Fig. 8. Package outline SOT353-1 (TSSOP5)



X2SON5: plastic thermal enhanced extremely thin small outline package; no leads;
5 terminals; body 0.8 x 0.8 x 0.35 mm

SOT1226

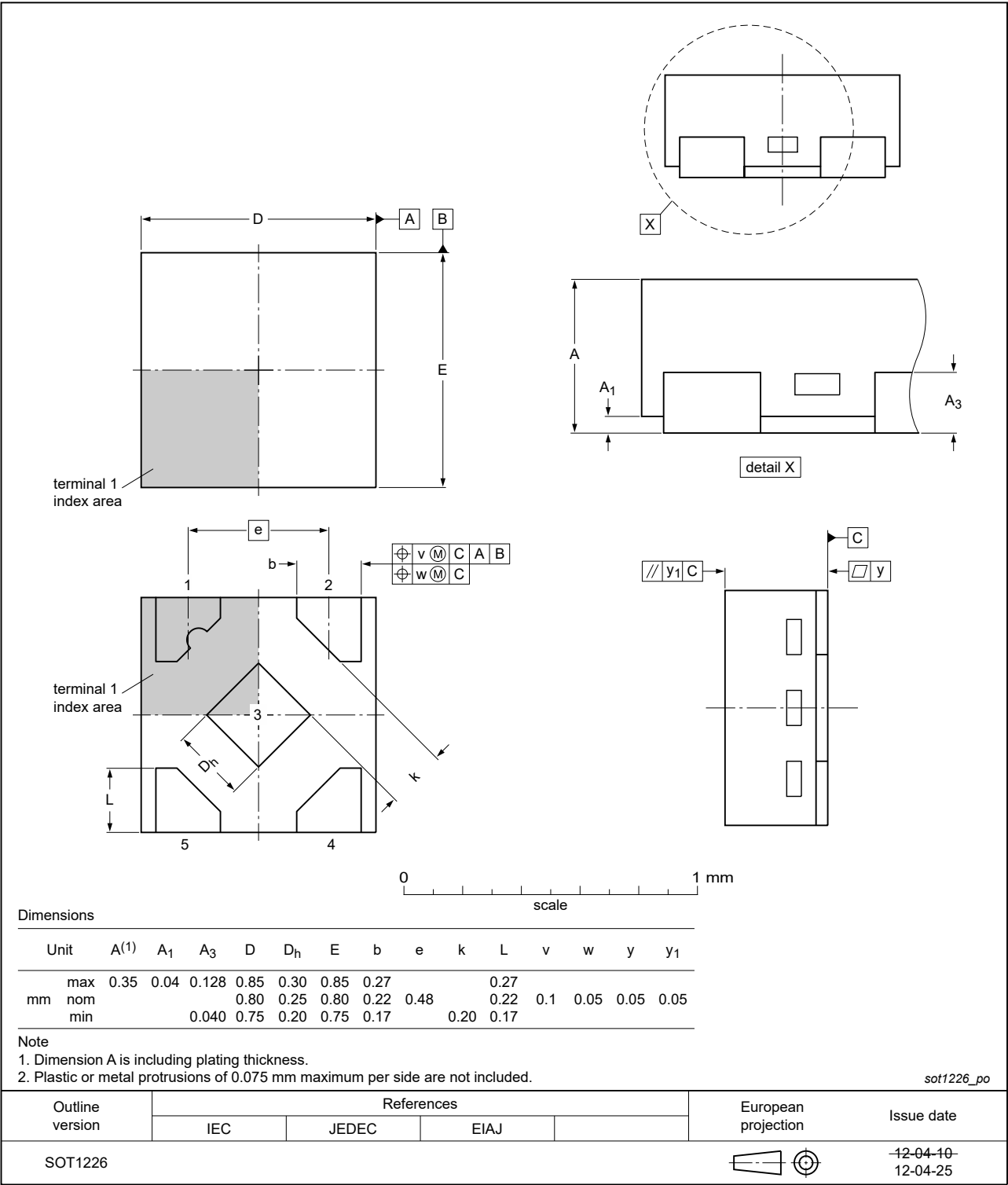


Fig. 10. Package outline SOT1226 (X2SON5)

14. Abbreviations

Table 11. Abbreviations

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

15. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LV1T08 v.2	20191203	Product data sheet	-	74LV1T08 v.1
Modifications:	- Type number 74LV1T08GV (SOT753/SC-74A) added. Table 5: Derating values for P_{tot} total power dissipation updated.			
74LV1T08 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.

- [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".
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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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