# 74LVC1G86 2-input EXCLUSIVE-OR gate Rev. 12 — 9 March 2017

**Product data sheet** 

#### 1 **General description**

The 74LVC1G86 provides the 2-input EXCLUSIVE-OR function.

Inputs can be driven from either 3.3 V or 5 V devices. These features allow the use of these devices in a mixed 3.3 V and 5 V environment.

This device is fully specified for partial Power-down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output, preventing the damaging backflow current through the device when it is powered down.

#### **Features and benefits** 2

- Wide supply voltage range from 1.65 V to 5.5 V
- High noise immunity
- · Complies with JEDEC standard:
  - **–** JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
  - HBM JESD22-A114F exceeds 2 000 V
  - MM JESD22-A115-A exceeds 200 V
- ±24 mA output drive (V<sub>CC</sub> = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- · Direct interface with TTL levels
- Inputs accept voltages up to 5 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



# 3 Ordering information

**Table 1. Ordering information** 

Type number	Package	Package							
	Temperature range	Name	Description	Version					
74LVC1G86GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1					
74LVC1G86GV	-40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753					
74LVC1G86GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm	SOT886					
74LVC1G86GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm	SOT891					
74LVC1G86GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm	SOT1115					
74LVC1G86GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm	SOT1202					
74LVC1G86GX	-40 °C to +125 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.35 mm	SOT1226					

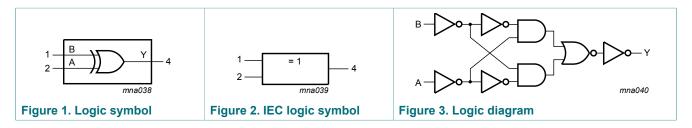
# 4 Marking

Table 2. Marking codes

Type number	Marking <sup>[1]</sup>
74LVC1G86GW	VH
74LVC1G86GV	V86
74LVC1G86GM	VH
74LVC1G86GF	VH
74LVC1G86GN	VH
74LVC1G86GS	VH
74LVC1G86GX	VH

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

# 5 Functional diagram

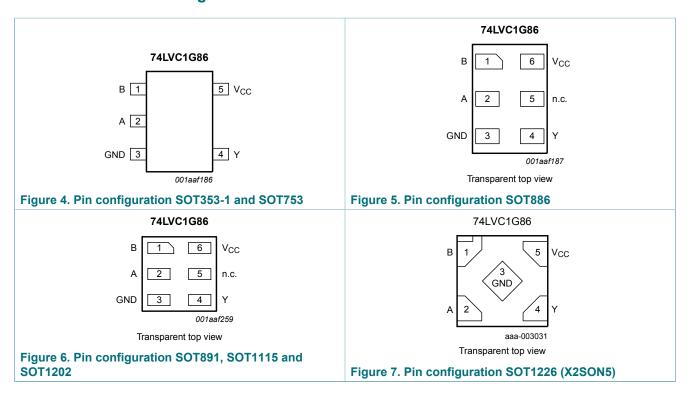


74LVC1G86

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# 6 Pinning information

# 6.1 Pinning



# 6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description		
	TSSOP5 and X2SON5	XSON6		
В	1	1	data input	
A	2	2	data input	
GND	3	3	ground (0 V)	
Υ	4	4	data output	
n.c.	-	5	not connected	
V <sub>CC</sub>	5	6	supply voltage	

# 7 Functional description

# Table 4. Function table [1]

Input	Output	
A	В	Υ
L	L	L
L	Н	Н
Н	L	Н
Н	Н	L

<sup>[1]</sup> H = HIGH voltage level;

# 8 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	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
VI	input voltage	[	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V	-	±50	mA
Vo	output voltage	Active mode [1] [	-0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode [1] [	-0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	+100	mA
I <sub>GND</sub>	ground current		-100	-	mA
P <sub>tot</sub>	total power dissipation	$T_{amb}$ = -40 °C to +125 °C	-	250	mW
T <sub>stg</sub>	storage temperature		-65	+150	°C

<sup>[1]</sup> The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

L = LOW voltage level

<sup>2]</sup> When  $V_{CC} = 0 \text{ V}$  (Power-down mode), the output voltage can be 5.5 V in normal operation.

For TSSOP5 and SC-74A packages: above 87.5 °C the value of P<sub>tot</sub> derates linearly with 4.0 mW/K. For XSON6 and X2SON5 packages: above 118 °C the value of P<sub>tot</sub> derates linearly with 7.8 mW/K.

# 9 Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	-	5.5	V
VI	input voltage		0	-	5.5	V
Vo	output voltage	Active mode	0	-	V <sub>CC</sub>	V
		V <sub>CC</sub> = 0 V; Power-down mode	0	-	5.5	V
T <sub>amb</sub>	ambient temperature		-40	-	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.7 V	-	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 5.5 V	-	-	10	ns/V

# 10 Static characteristics

## **Table 7. Static characteristics**

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

Symbol	Parameter	meter Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ <sup>[1]</sup>	Max	Min	Max	
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65V <sub>CC</sub>	-	-	0.65V <sub>CC</sub>	-	V
	voltage	V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.7V <sub>CC</sub>	-	-	0.7V <sub>CC</sub>	-	V
$V_{IL}$	LOW-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35V <sub>CC</sub>	-	0.35V <sub>CC</sub>	V
	voltage	V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.3V <sub>CC</sub>	-	0.3V <sub>CC</sub>	V
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
		I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	V <sub>CC</sub> - 0.1	-	-	V <sub>CC</sub> - 0.1	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	0.95	-	V
		$I_{O}$ = -8 mA; $V_{CC}$ = 2.3 V	1.9	-	-	1.7	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V	2.2	-	-	1.9	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.3	-	-	2.0	-	V
		$I_{O}$ = -32 mA; $V_{CC}$ = 4.5 V	3.8	-	-	3.4	-	V
V <sub>OL</sub>	LOW-level output	$V_I = V_{IH}$ or $V_{IL}$						
	voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.70	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.30	-	0.45	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.40	-	0.60	V

74LVC1G86

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**Nexperia** 74LVC1G86

# 2-input EXCLUSIVE-OR gate

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ <sup>[1]</sup>	Max	Min	Max	
		$I_{O}$ = 24 mA; $V_{CC}$ = 3.0 V	-	-	0.55	-	0.80	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.55	-	0.80	V
l <sub>1</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	±0.1	±1	-	±1	μΑ
I <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	±0.1	±2	-	±2	μΑ
I <sub>CC</sub>	supply current	V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.65 V to 5.5 V	-	0.1	4	-	4	μΑ
ΔI <sub>CC</sub>	additional supply current	per pin; V <sub>CC</sub> = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A	-	5	500	-	500	μΑ
Cı	input capacitance	$V_{CC}$ = 3.3 V; $V_I$ = GND to $V_{CC}$	-	5	-	-	-	pF

<sup>[1]</sup> All typical values are measured at  $V_{CC}$  = 3.3 V and  $T_{amb}$  = 25 °C.

# **Dynamic characteristics**

## **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Figure 9.

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ <sup>[1]</sup>	Max	Min	Max	
t <sub>pd</sub>	propagation delay	A, B to Y; see Figure 8 [2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3.7	9.9	1.0	13.0	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	2.5	5.5	0.5	7.0	ns
		V <sub>CC</sub> = 2.7 V	0.5	2.8	5.8	0.5	7.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	2.3	5.0	0.5	6.5	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.5	1.9	4.0	0.5	5.5	ns
C <sub>PD</sub>	power dissipation	$V_I = GND \text{ to } V_{CC}$ [3]						
	capacitance	V <sub>CC</sub> = 3.3 V	-	25	-	-	-	pF

- All typical values are measured at nominal V<sub>CC</sub>.
- $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$   $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).

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

f<sub>i</sub> = input frequency in MHz;

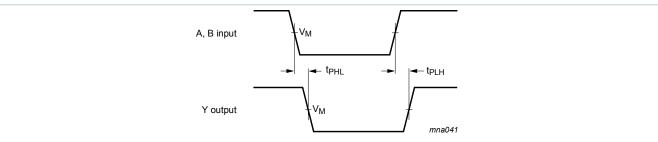
 $f_o$  = output frequency in MHz;

 $C_L$  = output load capacitance in pF;

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

N = number of inputs switching;  $\Sigma(C_L \times V_{CC}^2 \times f_0) = \text{sum of the outputs.}$ 

# 11.1 Waveforms and test circuit



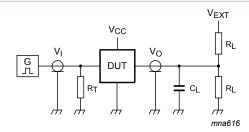
Measurement points are given in Table 9.

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

Figure 8. The input A and B to output Y propagation delay times

**Table 9. Measurement points** 

Supply voltage	Input	Output
V <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>
1.65 V to 1.95 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
2.3 V to 2.7 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>
2.7 V	1.5 V	1.5 V
3.0 V to 3.6 V	1.5 V	1.5 V
4.5 V to 5.5 V	0.5V <sub>CC</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  $Z_0$  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.

Figure 9. Test circuit for measuring switching times

## Table 10. Test data

Tubio 10. Tool data								
Supply voltage	Input		Load	V <sub>EXT</sub>				
V <sub>CC</sub>	VI	$t_r = t_f$	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>			
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	open			
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	open			
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open			
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open			
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open			

# 12 Package outline

# TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm SOT353-1 = v (M) A detail X scale **DIMENSIONS** (mm are the original dimensions) Z<sup>(1)</sup> D<sup>(1)</sup> E<sup>(1)</sup> UNIT С L θ $H_{\mathsf{E}}$ Lp у max. 0.30 0.15 2.25 2.0 2.25 1.85 1.35 1.15 0.46 1.0 0.25 0.60 0.1 0.15 0.425 mm 1.1 0.65 0.3 0.8 0.08

### Note

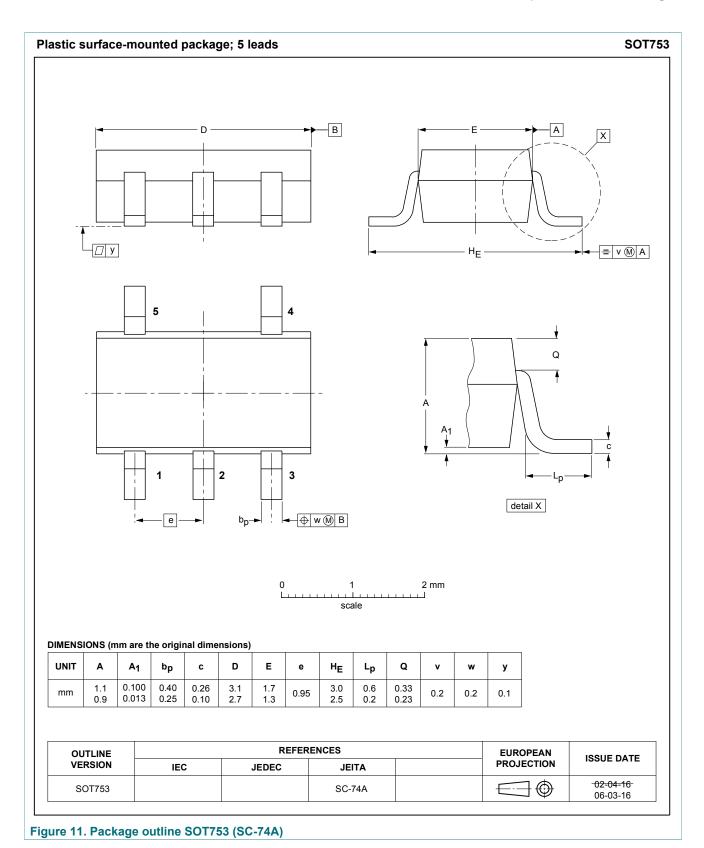
1. Plastic or metal protrusions of 0.15 mm maximum per side are not included.

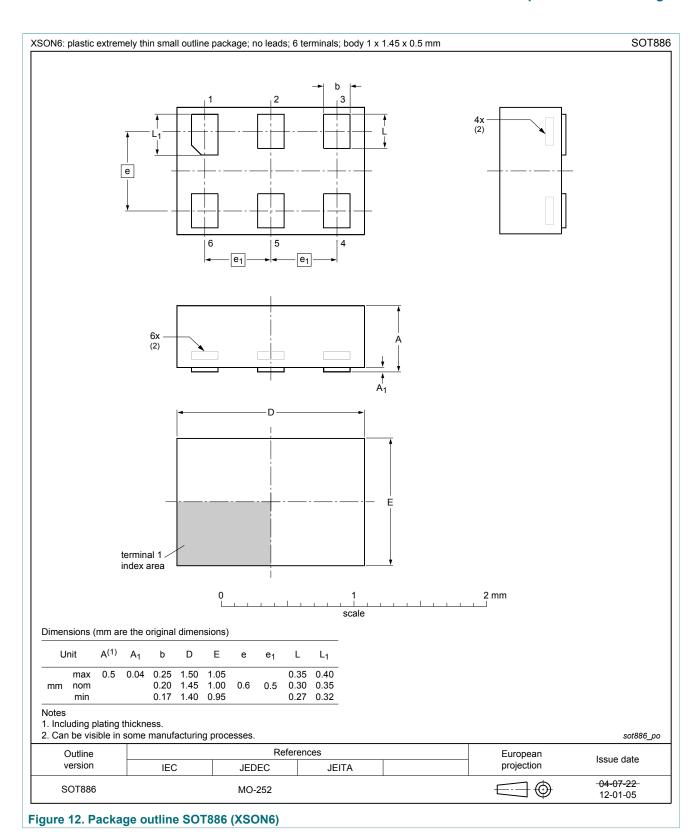
OUTLINE	REFERENCES				EUROPEAN	ISSUE DATE
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT353-1		MO-203	SC-88A			<del>-00-09-01-</del> 03-02-19

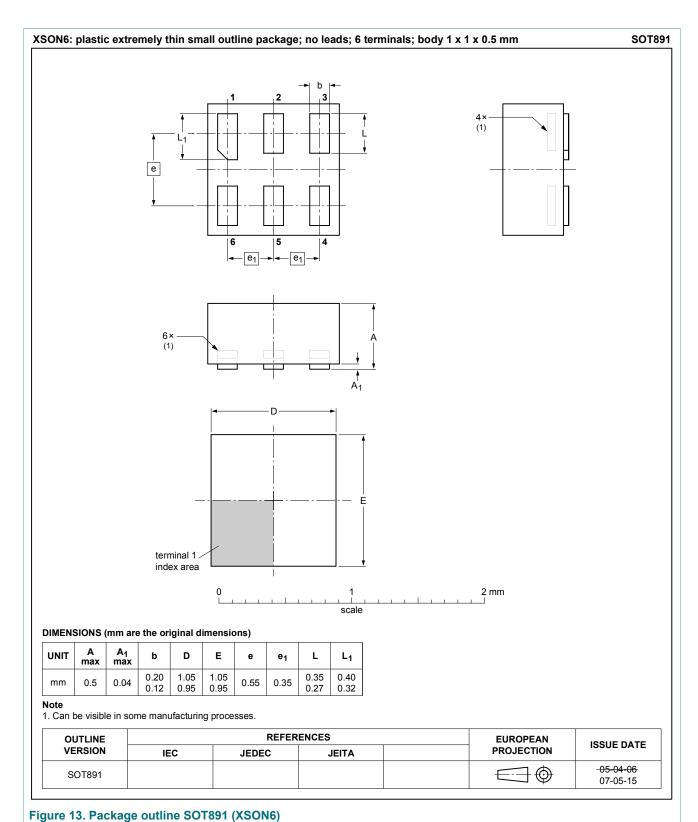
Figure 10. Package outline SOT353-1 (TSSOP5)

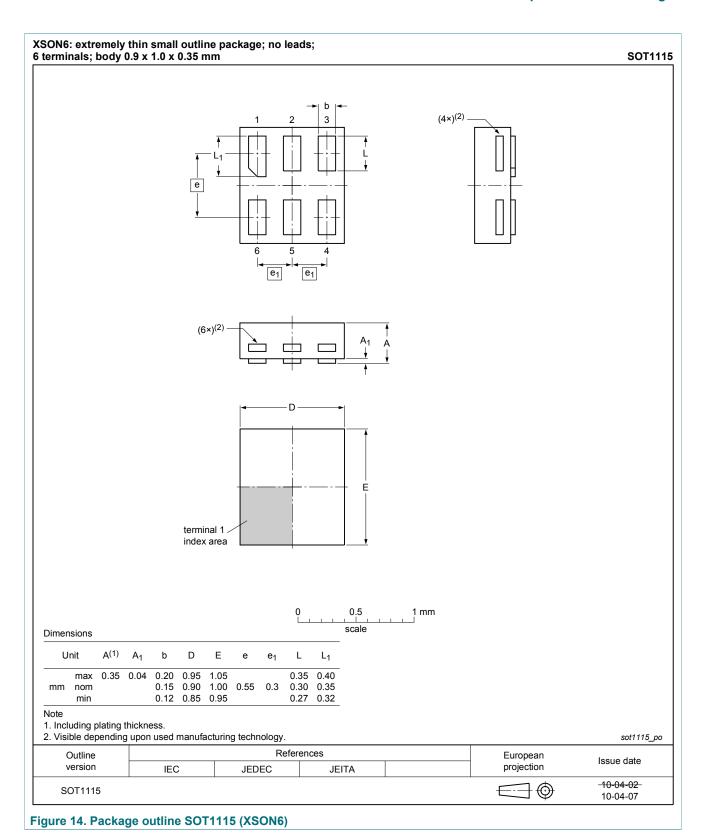
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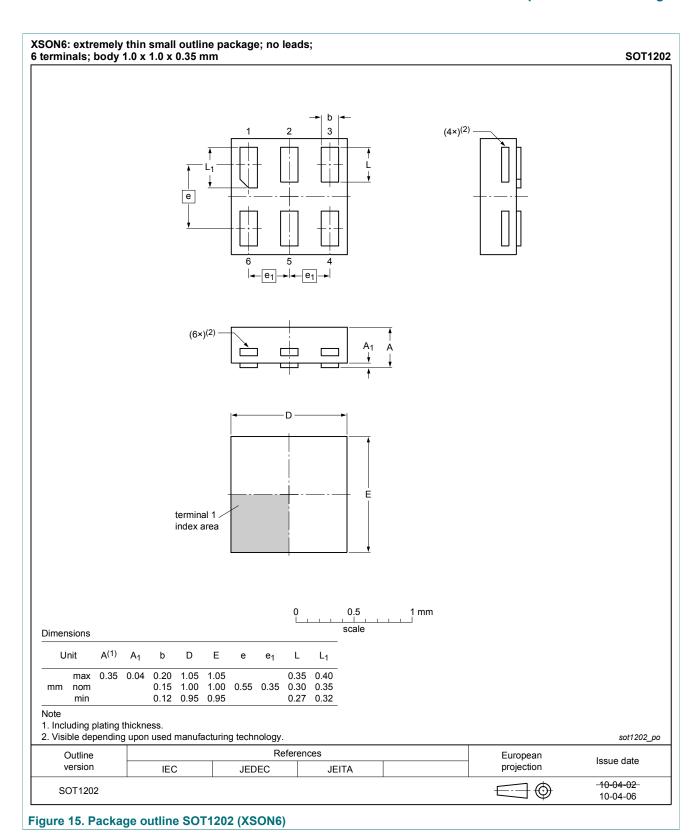
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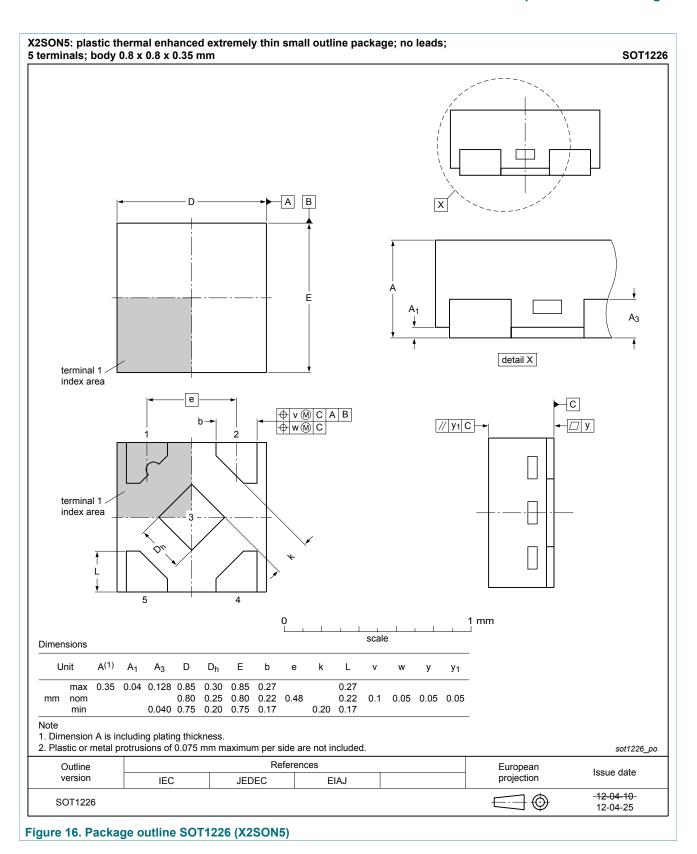












# 13 Abbreviations

## **Table 11. Abbreviations**

Acronym	Description			
CMOS	Complementary Metal-Oxide Semiconductor			
DUT	Device Under Test			
ESD	ElectroStatic Discharge			
НВМ	Human Body Model			
MM	Machine Model			
TTL	Transistor-Transistor Logic			

# 14 Revision history

## **Table 12. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC1G86 v.12	20170309	Product data sheet	-	74LVC1G86 v.11	
Modifications:	Nexperia.	data sheet has been redesigneen adapted to the new con			
74LVC1G86 v.11	20161212	Product data sheet	-	74LVC1G86 v.10	
Modifications:	<u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC1G86 v.10	20120702	Product data sheet	-	74LVC1G86 v.9	
Modifications:	Added type number 74LVC1G86GX (SOT1226)				
74LVC1G86 v.9	20120305	Product data sheet	-	74LVC1G86 v.8	
Modifications:	Package outline drawing of SOT886 ( <u>Figure 12</u> ) modified.				
74LVC1G86 v.8	20111201	Product data sheet	-	74LVC1G86 v.7	
Modifications:	<ul> <li>Legal pages upda</li> </ul>	ted.			
74LVC1G86 v.7	20100914	Product data sheet	-	74LVC1G86 v.6	
74LVC1G86 v.6	20070718	Product data sheet	-	74LVC1G86 v.5	
74LVC1G86 v.5	20060913	Product data sheet	-	74LVC1G86 v.4	
74LVC1G86 v.4	20040908	Product specification	-	74LVC1G86 v.3	
74LVC1G86 v.3	20021115	Product specification	-	74LVC1G86 v.2	
74LVC1G86 v.2	20010406	Preliminary specification	ı -	74LVC1G86 v.1	
74LVC1G86 v.1	20001222	Preliminary specification	ı -	-	

# 15 Legal information

## 15.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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.
- The term 'short data sheet' is explained in section "Definitions". [2] [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.nexperia.com.

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## 2-input EXCLUSIVE-OR gate

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# **Contents**

1	General description	1
2	Features and benefits	1
3	Ordering information	
4	Marking	
5	Functional diagram	
6	Pinning information	
6.1	Pinning	
6.2	Pin description	
7	Functional description	
8	Limiting values	
9	Recommended operating conditions	5
10	Static characteristics	
11	Dynamic characteristics	
11.1	Waveforms and test circuit	
12	Package outline	9
13	Abbreviations	16
14	Revision history	
15	Legal information	

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