Product data sheet

1. General description

The 74LVC2G86 is a dual 2-input EXCLUSIVE-OR gate. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times. This device is fully specified for partial power down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing the potentially damaging backflow current through the device when it is powered down.

2. Features and benefits

- Wide supply voltage range from 1.65 V to 5.5 V
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- · CMOS low-power dissipation
- ±24 mA output drive (V_{CC} = 3.0 V)
- · Latch-up performance exceeds 250 mA
- · Direct interface with TTL levels
- I_{OFF} circuitry provides partial Power-down mode operation
- Complies with JEDEC standard:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
 - JESD36 (4.5 V to 5.5 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



Dual 2-input EXCLUSIVE-OR gate

3. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC2G86DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74LVC2G86DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC2G86GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1
74LVC2G86GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116
74LVC2G86GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203
74LVC2G86GX	-40 °C to +125 °C	X2SON8	plastic thermal enhanced extremely thin small outline package; no leads; 8 terminals; body 1.35 × 0.8 × 0.32 mm	SOT1233-2

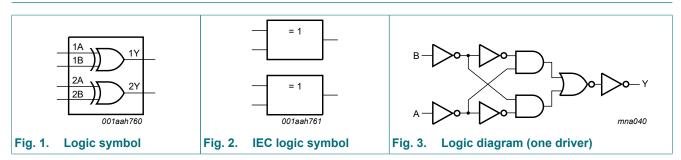
4. Marking

Table 2. Marking codes

Type number	Marking code[1]
74LVC2G86DP	V86
74LVC2G86DC	V86
74LVC2G86GT	V86
74LVC2G86GN	VH
74LVC2G86GS	VH
74LVC2G86GX	VH

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

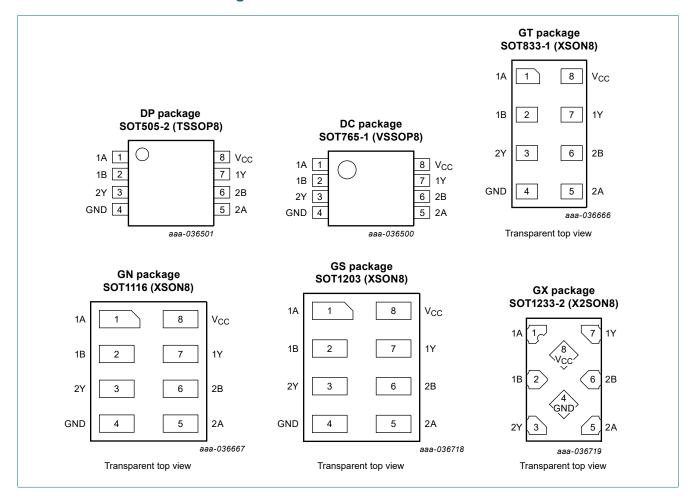
5. Functional diagram



Dual 2-input EXCLUSIVE-OR gate

6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
1A, 2A	1, 5	data input
1B, 2B	2, 6	data input
GND	4	ground (0 V)
1Y, 2Y	7, 3	data output
V _{CC}	8	supply voltage

Dual 2-input EXCLUSIVE-OR gate

7. Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$

Input		Output
nA	nB	nY
L	L	L
L	Н	Н
Н	L	Н
Н	Н	L

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 _{CC}	supply voltage			-0.5	+6.5	V
I _{IK}	input clamping current	V _I < 0 V		-50	-	mA
VI	input voltage		[1]	-0.5	+6.5	V
I _{OK}	output clamping current	$V_O > V_{CC}$ or $V_O < 0$ V		-	±50	mA
Vo	output voltage	Active mode	[1]	-0.5	V _{CC} + 0.5	V
		Power-down mode; V _{CC} = 0 V	[1]	-0.5	+6.5	V
Io	output current	$V_O = 0$ to V_{CC}		-	±50	mA
I _{CC}	supply current			-	100	mA
I _{GND}	ground current			-100	-	mA
T _{stg}	storage temperature			-65	+150	°C
P _{tot}	total power dissipation	T _{amb} = -40 °C to +125 °C				
		SOT505-2 (TSSOP8) SOT765-1 (VSSOP8) SOT833-1 (XSON8) SOT1116 (XSON8) SOT1203 (XSON8)	[2]	-	250	mW
		SOT1233-2 (X2SON8)	[3]	-	300	mW

- [1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- [2] For SOT505-2 (TSSOP8) package: P_{tot} derates linearly with 4.6 mW/K above 96 °C. For SOT765-1 (VSSOP8) package: P_{tot} derates linearly with 4.9 mW/K above 99 °C.
 - For SOT833-1 (XSON8) package: $\mathrm{P_{tot}}$ derates linearly with 3.1 mW/K above 68 °C.
 - For SOT1116 (XSON8) package: P_{tot} derates linearly with 4.2 mW/K above 90 °C.
 - For SOT1203 (XSON8) package: P_{tot} derates linearly with 3.6 mW/K above 81 °C.
- [3] For SOT1233-2 (X2SON8) package: P_{tot} derates linearly with 7.7 mW/K above 118 °C.

Dual 2-input EXCLUSIVE-OR gate

9. Recommended operating conditions

Table 6. Operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		1.65	5.5	V
VI	input voltage		0	5.5	V
Vo	output voltage	Active mode	0	V _{CC}	V
		Power-down mode; V _{CC} = 0 V	0	5.5	V
T _{amb}	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.65 V to 2.7 V	-	20	ns/V
		V _{CC} = 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	Conditions	Min	Typ[1]	Max	Unit
T _{amb} = -4	0 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}				
		I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	0.07	0.45	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	0.12	0.3	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	0.17	0.4	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	0.33	0.55	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	0.39	0.55	V
V _{OH}	HIGH-level output voltage	V _I = V _{IH} or V _{IL}				
		I_{O} = -100 μ A; V_{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	1.54	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	1.9	2.15	-	V
		I_{O} = -12 mA; V_{CC} = 2.7 V	2.2	2.50	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.3	2.62	-	V
		I_{O} = -32 mA; V_{CC} = 4.5 V	3.8	4.11	-	V
I _I	input leakage current	V_I = 5.5 V or GND; V_{CC} = 0 V to 5.5 V	-	±0.1	±1	μΑ
I _{OFF}	power-off leakage current	V _I or V _O = 5.5 V; V _{CC} = 0 V	-	±0.1	±2	μΑ
I _{CC}	supply current	V _I = 5.5 V or GND; V _{CC} = 1.65 V to 5.5 V; I _O = 0 A	-	0.1	4	μΑ

Symbol	Parameter	Conditions	Min	Typ[1]	Max	Unit
ΔI _{CC}	additional supply current	per pin; V _I = V _{CC} - 0.6 V; V _{CC} = 2.3 V to 5.5 V; I _O = 0 A;	-	5	500	μΑ
Cı	input capacitance		-	2.5	-	рF
T _{amb} = -4	0 °C to +125 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	V
		V _{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}	V
V _{OL}	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.70	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.60	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.80	V
		I _O = 32 mA; V _{CC} = 4.5 V	-	-	0.80	V
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		$I_O = -100 \mu A$; $V_{CC} = 1.65 V$ to 5.5 V	V _{CC} - 0.1	-	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	0.95	-	-	V
		I _O = -8 mA; V _{CC} = 2.3 V	1.7	-	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	1.9	-	-	V
		I _O = -24 mA; V _{CC} = 3.0 V	2.0	-	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.4	-	-	V
l _l	input leakage current	$V_1 = 5.5 \text{ V or GND}; V_{CC} = 0 \text{ V to } 5.5 \text{ V}$	-	-	±1	μA
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$	-	-	±2	μΑ
Icc	supply current	V _I = 5.5 V or GND; V _{CC} = 1.65 V to 5.5 V; I _O = 0 A	-	-	4	μΑ
ΔI _{CC}	additional supply current	per pin; V _I = V _{CC} - 0.6 V; V _{CC} = 2.3 V to 5.5 V; I _O = 0 A;	-	-	500	μΑ

^[1] All typical values are measured at V_{CC} = 3.3 V and T_{amb} = 25 $^{\circ}C.$

Dual 2-input EXCLUSIVE-OR gate

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground 0 V); for test circuit see Fig. 5.

Symbol	Parameter	arameter Conditions -40 °C to +85 °C		-40 °C to +125 °C		Unit		
			Min	Typ[1]	Max	Min	Max	
t _{pd}	propagation delay	nA, nB to nY; see Fig. 4 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.4	3.8	9.9	1.4	12.4	ns
		V _{CC} = 2.3 V to 2.7 V	0.8	2.5	5.7	0.8	7.2	ns
		V _{CC} = 2.7 V	0.8	3.0	5.7	0.8	7.2	ns
		V _{CC} = 3.0 V to 3.6 V	8.0	2.3	4.7	0.8	5.9	ns
		V _{CC} = 4.5 V to 5.5 V	0.6	1.9	3.6	0.6	4.5	ns
C _{PD}	power dissipation capacitance	per gate; V_I = GND to V_{CC} ; [3] V_{CC} = 3.3 V	-	15.8	-	-	-	pF

- Typical values are measured at T_{amb} = 25 °C and V_{CC} = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.
- t_{pd} is the same as t_{PLH} and t_{PHL} 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;

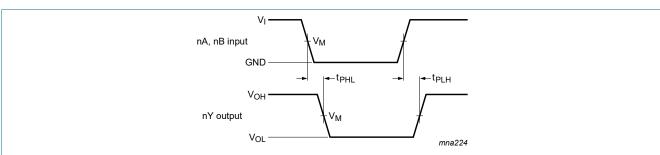
C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\sum (C_L \times V_{CC}^2 \times f_0) = \text{sum of outputs.}$

11.1. Waveform and test circuit



Measurement points are given in Table 9.

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

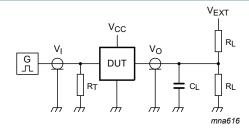
Propagation delay input (nA, nB) to output (nY)

Table 9. Measurement points

Supply voltage	Input	Output
V _{CC}	V _M	V _M
1.65 V to 1.95 V	0.5V _{CC}	0.5V _{CC}
2.3 V to 2.7 V	0.5V _{CC}	0.5V _{CC}
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 _{CC}	0.5V _{CC}

74LVC2G86

Dual 2-input EXCLUSIVE-OR gate



Test data is given in Table 10.

Definitions for test circuit:

 R_L = Load resistance;

 C_L = Load capacitance including jig and probe capacitance;

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

 V_{EXT} = External voltage for measuring switching times

Fig. 5. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input	Input I		Load	
V _{CC}	V _I	t _r , t _f	CL	R _L	t _{PLH} , t _{PHL}
1.65 V to 1.95 V	V _{CC}	≤ 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V _{CC}	≤ 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 _{CC}	≤ 2.5 ns	50 pF	500 Ω	open

Dual 2-input EXCLUSIVE-OR gate

12. Package outline

TSSOP8: plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm SOT505-2

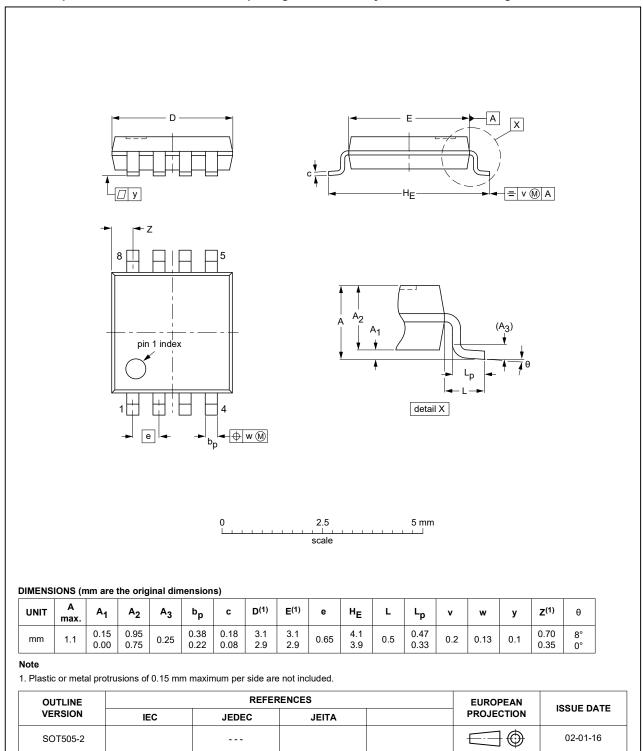


Fig. 6. Package outline SOT505-2 (TSSOP8)

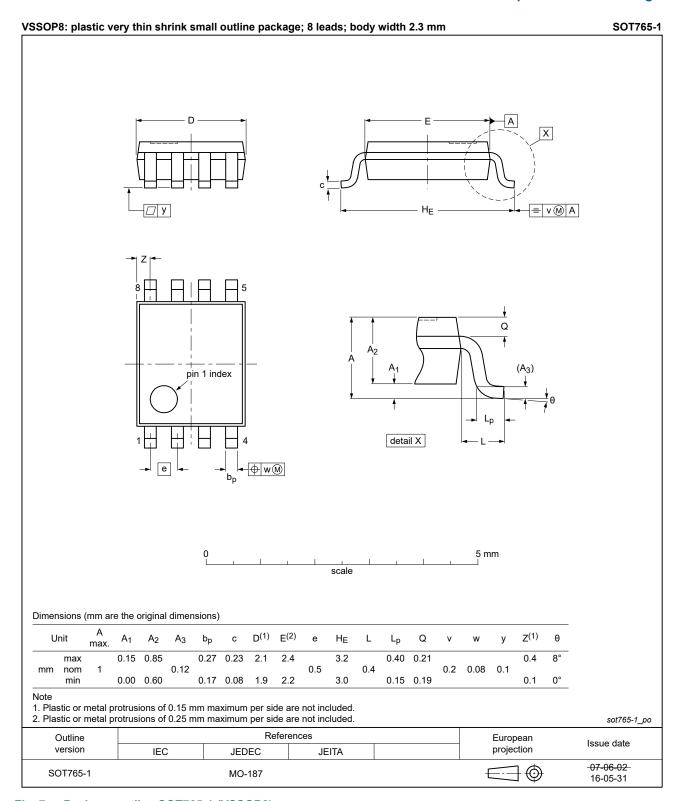


Fig. 7. Package outline SOT765-1 (VSSOP8)

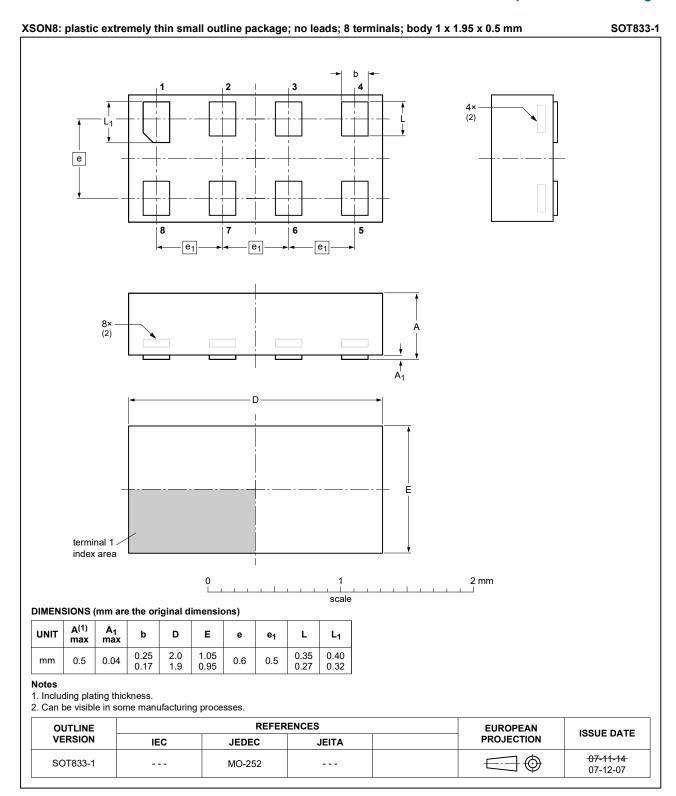


Fig. 8. Package outline SOT833-1 (XSON8)

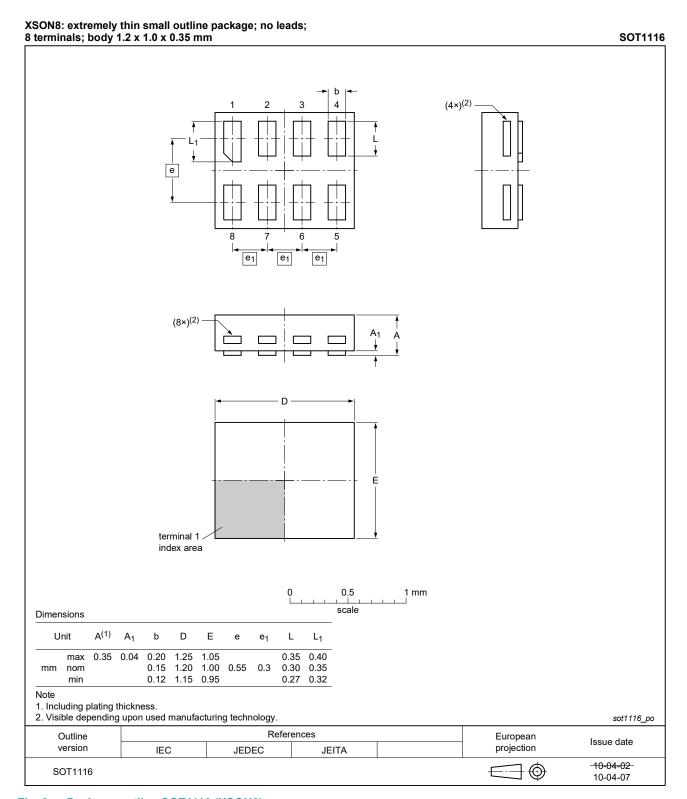


Fig. 9. Package outline SOT1116 (XSON8)

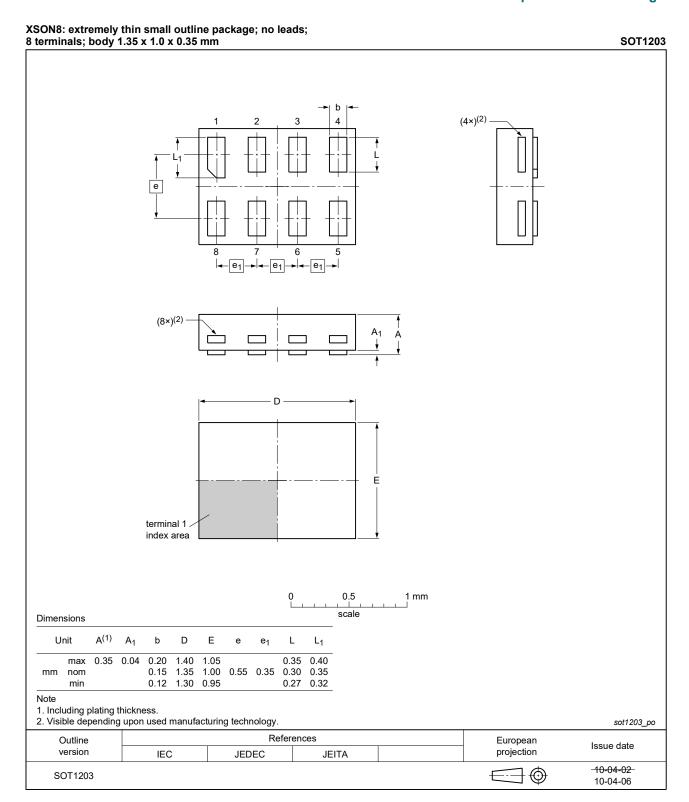


Fig. 10. Package outline SOT1203 (XSON8)

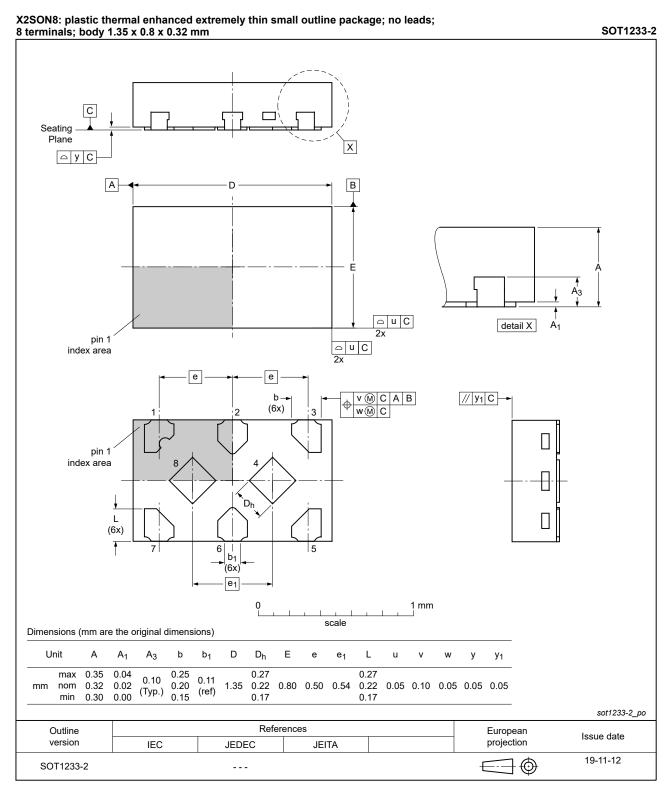


Fig. 11. Package outline SOT1233-2 (X2SON8)

Dual 2-input EXCLUSIVE-OR gate

13. Abbreviations

Table 11. Abbreviations

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

14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74LVC2G86 v.17	20240426	Product data sheet	-	74LVC2G86 v.16		
Modifications:	Type number	Type number 74LVC2G86GF (SOT1089/XSON8) removed.				
74LVC2G86 v.16	20230822	Product data sheet	-	74LVC2G86 v.15		
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74LVC2G86 v.15	20220621	Product data sheet	-	74LVC2G86 v.14		
Modifications:	Package St	Package SOT1233 (X2SON8) changed to SOT1233-2 (X2SON8).				
74LVC2G86 v.14	20220315	Product data sheet	-	74LVC2G86 v.13		
Modifications:	<u>Section 1</u> a	• Section 1 and Section 2 updated.				
74LVC2G86 v.13	20170703	Product data sheet	-	74LVC2G86 v.12		
	Legal textsAdded typeType numb	Type number 74LVC2G86GD removed.				
74LVC2G86 v.12	20161215	Product data sheet	-	74LVC2G86 v.11		
Modifications:	• <u>Table 7</u> : The	• <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC2G86 v.11	20130408	Product data sheet	-	74LVC2G86 v.10		
Modifications:	 For type nu 	For type number 74LVC2G86GD XSON8U has changed to XSON8.				
74LVC2G86 v.10	20120521	Product data sheet	-	74LVC2G86 v.9		
Modifications:	 For type nu 	For type number 74LVC2G86GM the sot code has changed to SOT902-2.				
74LVC2G86 v.9	20111125	Product data sheet	-	74LVC2G86 v.8		
Modifications:	Legal page:	Legal pages updated.				
74LVC2G86 v.8	20101019	Product data sheet	-	74LVC2G86 v.7		
74LVC2G86 v.7	20080613	Product data sheet	-	74LVC2G86 v.6		
74LVC2G86 v.6	20080222	Product data sheet	-	74LVC2G86 v.5		
74LVC2G86 v.5	20070907	Product data sheet	-	74LVC2G86 v.4		
74LVC2G86 v.4	20061013	Product data sheet	-	74LVC2G86 v.3		

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15. 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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Dual 2-input EXCLUSIVE-OR gate

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