74LVC2G125

Dual bus buffer/line driver; 3-state

Rev. 16 — 10 September 2018

Product data sheet

1. General description

The 74LVC2G125 provides a dual non-inverting buffer/line driver with 3-state output. The 3-state output is controlled by the output enable input (pin nOE). A HIGH-level at pin nOE causes the output to assume a high-impedance OFF-state. Schmitt trigger action at all inputs makes the circuit highly tolerant of slower input rise and fall times.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in a mixed 3.3 V and 5 V environment.

This device is fully specified for partial power-down applications using I_{OFF} . The I_{OFF} circuitry disables the output, preventing a 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
- 5 V tolerant input/output for interfacing with 5 V logic
- · 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)
 - JESD8-B/JESD36 (2.7 V to 3.6 V)
- ESD protection:
- HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- ±24 mA output drive (V_{CC} = 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



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3. Ordering information

Table 1. Ordering information

Type number	Package	Package							
	Temperature range	Name	Description	Version					
74LVC2G125DP	-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					
74LVC2G125DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1					
74LVC2G125GT	-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					
74LVC2G125GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089					
74LVC2G125GM	-40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 × 1.6 × 0.5 mm	SOT902-2					
74LVC2G125GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116					
74LVC2G125GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203					

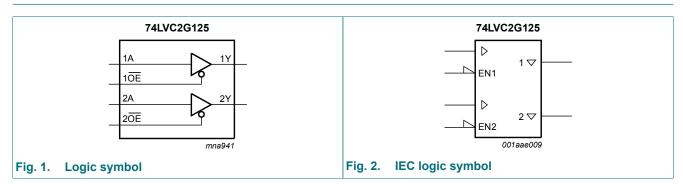
4. Marking

Table 2. Marking codes

Type number	Marking code [1]
74LVC2G125DP	V25
74LVC2G125DC	V25
74LVC2G125GT	V25
74LVC2G125GF	VM
74LVC2G125GM	V25
74LVC2G125GN	VM
74LVC2G125GS	VM

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

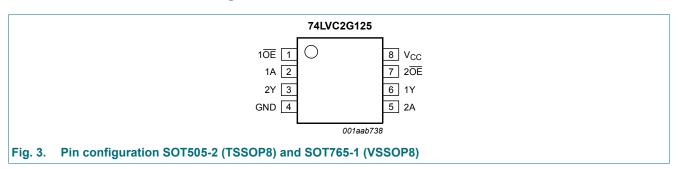
5. Functional diagram

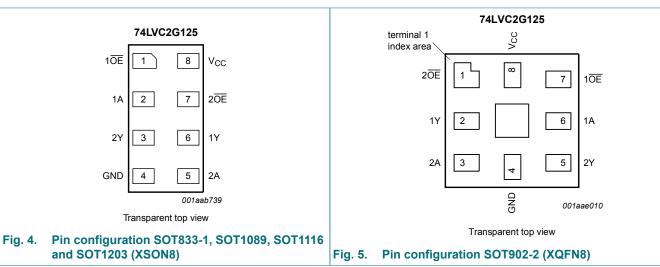


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6. Pinning information

6.1. Pinning





6.2. Pin description

Table 3. Pin description

Symbol	Pin	Pin		
	SOT505-2, SOT765-1, SOT833-1, SOT1089, SOT1116 and SOT1203	SOT902-2		
1 OE , 2 OE	1, 7	7, 1	output enable input (active LOW)	
1A, 2A	2, 5	6, 3	data input	
GND	4	4	ground (0 V)	
1Y, 2Y	6, 3	2, 5	data output	
V _{CC}	8	8	supply voltage	

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7. Functional description

Table 4. Function table

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

	Input	Output
nOE	nA	nY
L	L	L
L	Н	Н
Н	X	Z

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	Enable mode [1]	-0.5	V _{CC} + 0.5	V
		Disable mode [1]	-0.5	+6.5	V
		Power-down mode; V _{CC} = 0 V [1]	-0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±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	$T_{amb} = -40 ^{\circ}\text{C to } +125 ^{\circ}\text{C}$ [2]	-	300	mW

^[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

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
V _O	output voltage	V _{CC} = 1.65 V to 5.5 V; Enable mode	0	V _{CC}	V
		V _{CC} = 1.65 V to 5.5 V; Disable mode	0	5.5	V
		V _{CC} = 0 V; Power-down mode	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

^[2] For TSSOP8 package: above 55 °C the value of P_{tot} derates linearly with 2.5 mW/K.
For VSSOP8 package: above 110 °C the value of P_{tot} derates linearly with 8 mW/K.
For XSON8, XQFN8 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

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10. Static characteristics

Table 7. Static characteristics

At recommended operating conditions; voltages are referenced to GND (ground 0 V).

Symbol	Parameter	Conditions	T _{amb} =	T _{amb} = -40 °C to +85 °C			T _{amb} = -40 °C to +125 °C	
			Min	Typ [1]	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 1.65 V to 1.95 V	0.65V _{CC}	-	-	0.65V _{CC}	-	V
	input voltage	V _{CC} = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7V _{CC}	-	-	0.7V _{CC}	-	V
V _{IL}	LOW-level	V _{CC} = 1.65 V to 1.95 V	-	-	0.35V _{CC}	-	0.35V _{CC}	V
	input voltage	V _{CC} = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3V _{CC}	-	0.3V _{CC}	V
V_{OL}	LOW-level	V _I = V _{IH} or V _{IL}						
	output voltage	I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.1	-	0.1	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	-	0.45	-	0.70	٧
		I _O = 8 mA; V _{CC} = 2.3 V	-	-	0.3	-	0.45	V
		I _O = 12 mA; V _{CC} = 2.7 V	-	-	0.4	-	0.60	V
		I _O = 24 mA; V _{CC} = 3.0 V	-	-	0.55	-	0.80	V
		I_{O} = 32 mA; V_{CC} = 4.5 V	-	-	0.55	-	0.80	V
V _{OH}	HIGH-level	V _I = V _{IH} or V _{IL}						
	output voltage	I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	V _{CC} - 0.1	-	V
		I _O = -4 mA; V _{CC} = 1.65 V	1.2	-	-	0.95	-	V
		I_{O} = -8 mA; V_{CC} = 2.3 V	1.9	-	-	1.7	-	V
		I _O = -12 mA; V _{CC} = 2.7 V	2.2	-	-	1.9	-	V
		I_{O} = -24 mA; V_{CC} = 3.0 V	2.3	-	-	2.0	-	V
		I_{O} = -32 mA; V_{CC} = 4.5 V	3.8	-	-	3.4	-	V
l _l	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±1	-	±1	μΑ
I _{OZ}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = 5.5$ V or GND; $V_{CC} = 3.6$ V	-	±0.1	±2	-	±2	μΑ
l _{OFF}	power-off leakage current	V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$	-	±0.1	±2	-	±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	-	4	μΑ
Δl _{CC}	additional supply current	per pin; $V_1 = V_{CC} - 0.6 \text{ V}$; $I_0 = 0 \text{ A}$; $V_{CC} = 2.3 \text{ V to } 5.5 \text{ V}$	-	5	500	-	500	μΑ
Cı	input capacitance		-	2	-	-	-	pF

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

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11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground 0 V); for test circuit see Fig. 8.

Symbol	Parameter	Conditions	T _{amb} = -40 °C to +		+85 °C T _{amb} = -40 °C to +125 °		_{nb} = o +125 °C	Unit
			Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation	nA to nY; see Fig. 6 [2]						
	delay	V _{CC} = 1.65 V to 1.95 V	1.0	3.7	9.1	1.0	11.4	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	2.5	4.8	0.5	6.0	ns
		V _{CC} = 2.7 V	1.0	2.7	4.8	1.0	6.0	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	2.3	4.3	0.5	5.5	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	1.9	3.7	0.5	4.6	ns
t _{en}	enable time	nOE to nY; see Fig. 7 [3]						
		V _{CC} = 1.65 V to 1.95 V	1.5	4.3	9.9	1.5	12.4	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	2.8	5.6	1.0	7.0	ns
		V _{CC} = 2.7 V	1.5	3.3	5.7	1.5	7.1	ns
		V _{CC} = 3.0 V to 3.6 V	0.5	2.4	4.7	0.5	5.9	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	2.0	3.8	0.5	4.8	ns
t _{dis}	disable time	nOE to nY; see Fig. 7 [4]						
		V _{CC} = 1.65 V to 1.95 V	1.0	3.5	11.6	1.0	14.1	ns
		V _{CC} = 2.3 V to 2.7 V	0.5	1.8	5.8	0.5	7.6	ns
		V _{CC} = 2.7 V	1.0	2.7	4.8	1.0	6.2	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	2.7	4.6	1.0	5.9	ns
		V _{CC} = 4.5 V to 5.5 V	0.5	1.8	3.4	0.5	4.6	ns
C _{PD}	1:	per buffer; $V_I = GND$ to V_{CC} [5]						
	capacitance	output enabled	-	18	-	-	-	pF
		output disabled	-	5	-	-	-	pF

^[1] Typical values are measured at nominal V_{CC} and at T_{amb} = 25 °C.

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

 f_i = input frequency in MHz;

fo = output frequency in MHz;

C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

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

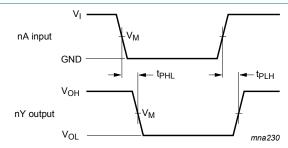
^[3] [4] t_{en} is the same as t_{PZH} and t_{PZL}.

 t_{dis} is the same as t_{PLZ} and t_{PHZ} .

 C_{PD} is used to determine the dynamic power dissipation (P_D in μ 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:

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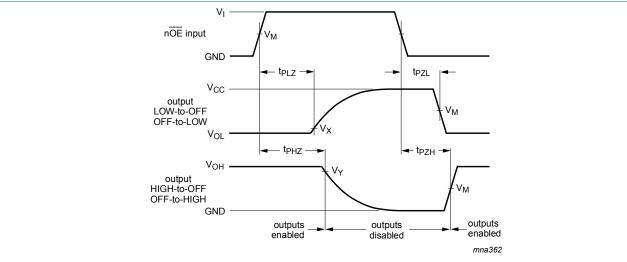
11.1. Waveforms and test circuit



Measurement points are given in Table 9.

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

Fig. 6. Propagation delay input (nA) to output (nY)



Measurement points are given in Table 9.

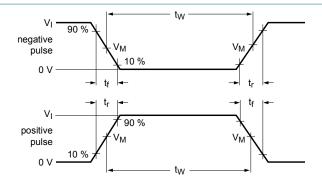
Logic levels: V_{OL} and V_{OH} are typical output voltage levels that occur with the output load.

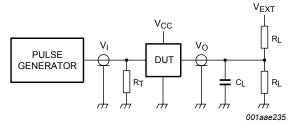
Fig. 7. 3-state output enable and disable times

Table 9. Measurement points

Supply voltage	Input	Output				
V _{CC}	V _M	V _M	V _X	V _Y		
1.65 V to 1.95 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V		
2.3 V to 2.7 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.15 V	V _{OH} - 0.15 V		
2.7 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V		
3.0 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V		
4.5 V to 5.5 V	0.5V _{CC}	0.5V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V		

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Test data is given in <u>Table 10</u>.

Definitions for test circuit:

R_L = Load resistor.

 C_L = Load capacitance including jig and probe capacitance.

 R_{T} = Termination resistance should be equal to output impedance Z_{o} of the pulse generator.

V_{EXT} = Test voltage for switching times.

Fig. 8. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input		Load	Load		V _{EXT}		
V _{CC}	V _I	t _r , t _f	CL	R _L	t _{PLH} , t _{PHL}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}	
1.65 V to 1.95 V	V _{CC}	≤ 2.0 ns	30 pF	1 kΩ	open	GND	2V _{CC}	
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	2V _{CC}	
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V	
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	open	GND	6 V	
4.5 V to 5.5 V	V _{CC}	≤ 2.5 ns	50 pF	500 Ω	open	GND	2V _{CC}	

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12. Package outline

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

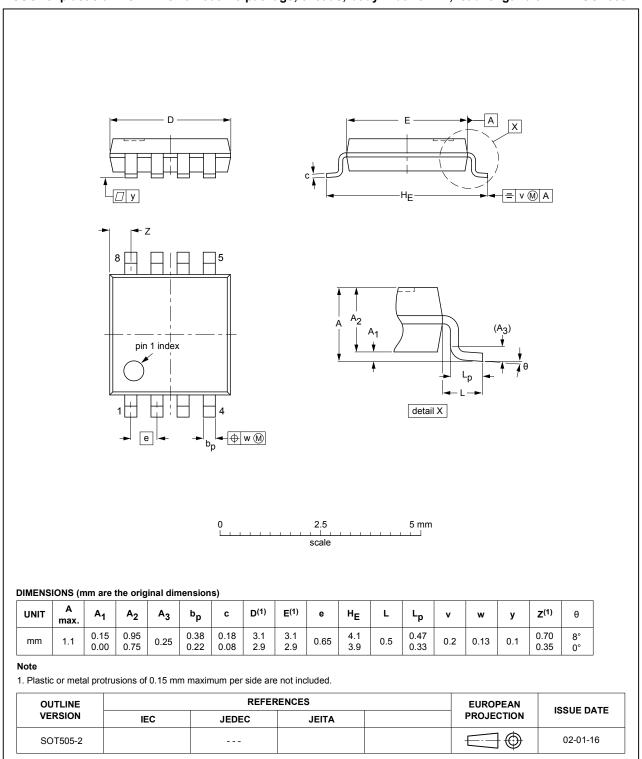


Fig. 9. Package outline SOT505-2 (TSSOP8)

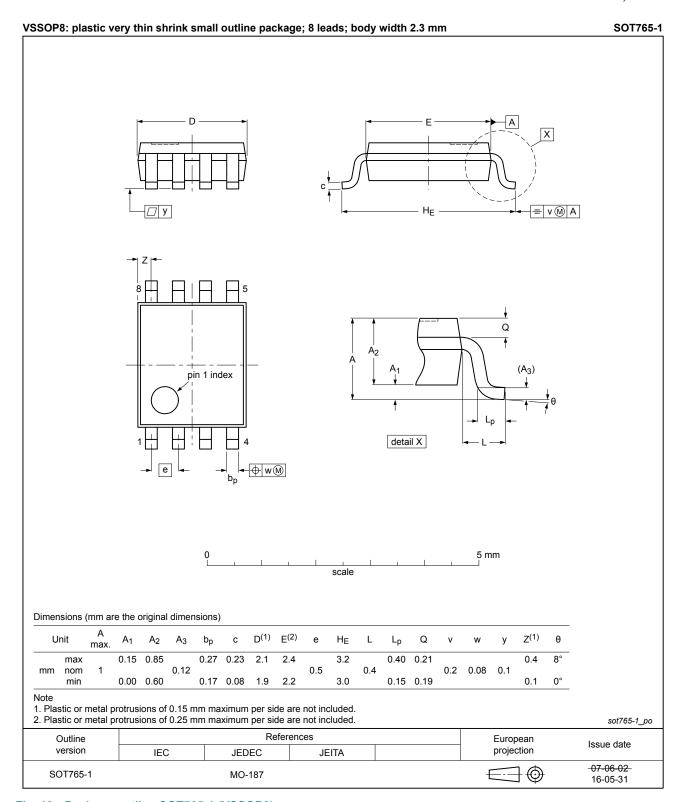


Fig. 10. Package outline SOT765-1 (VSSOP8)

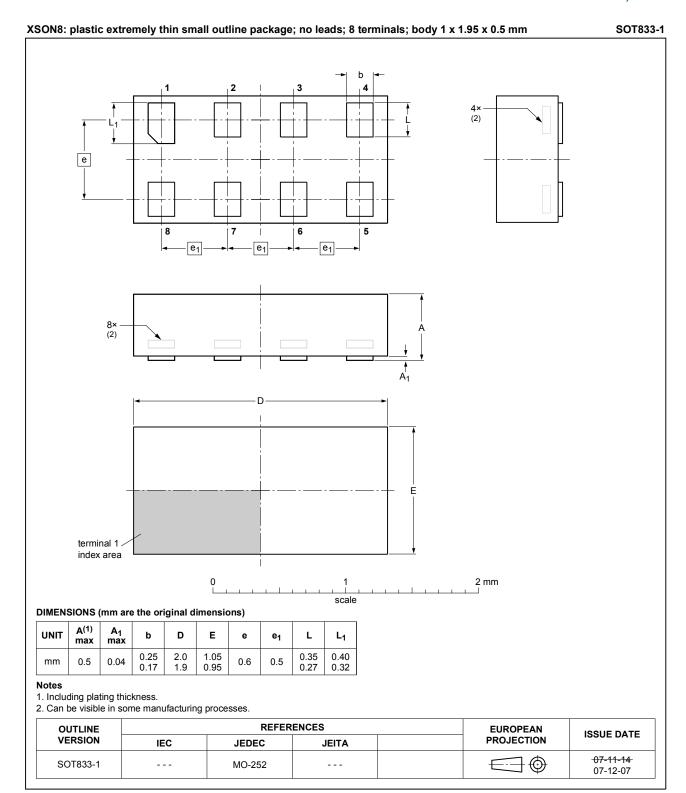


Fig. 11. Package outline SOT833-1 (XSON8)

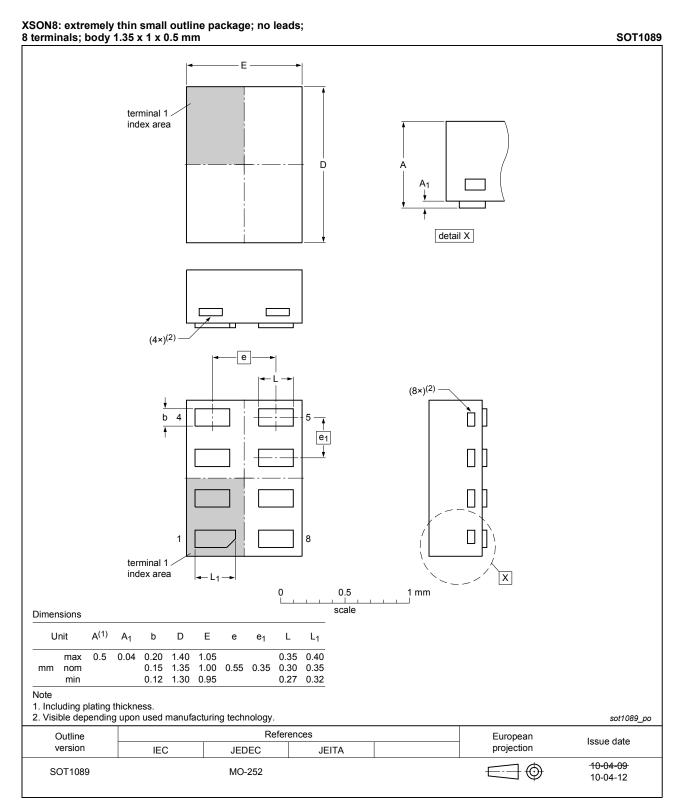


Fig. 12. Package outline SOT1089 (XSON8)

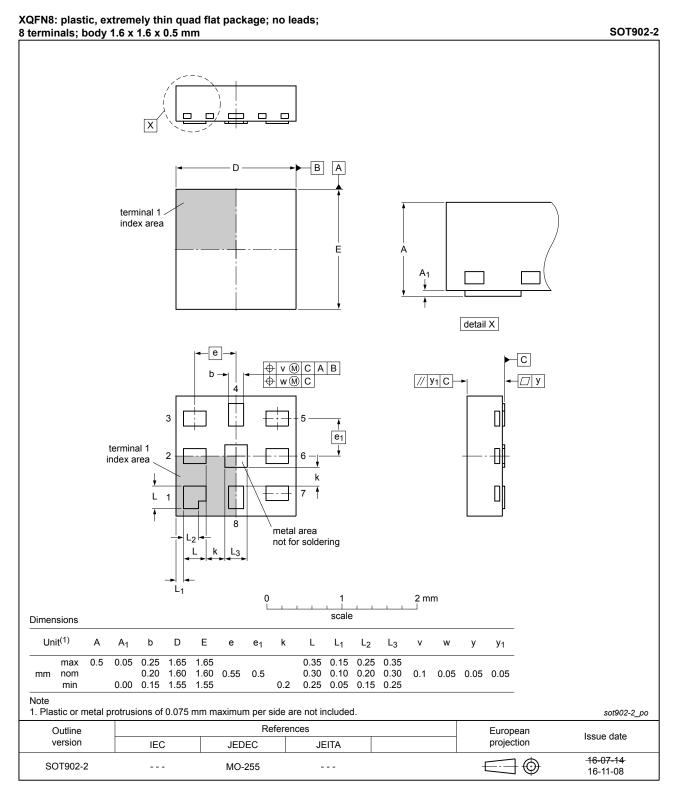


Fig. 13. Package outline SOT902-2 (XQFN8)

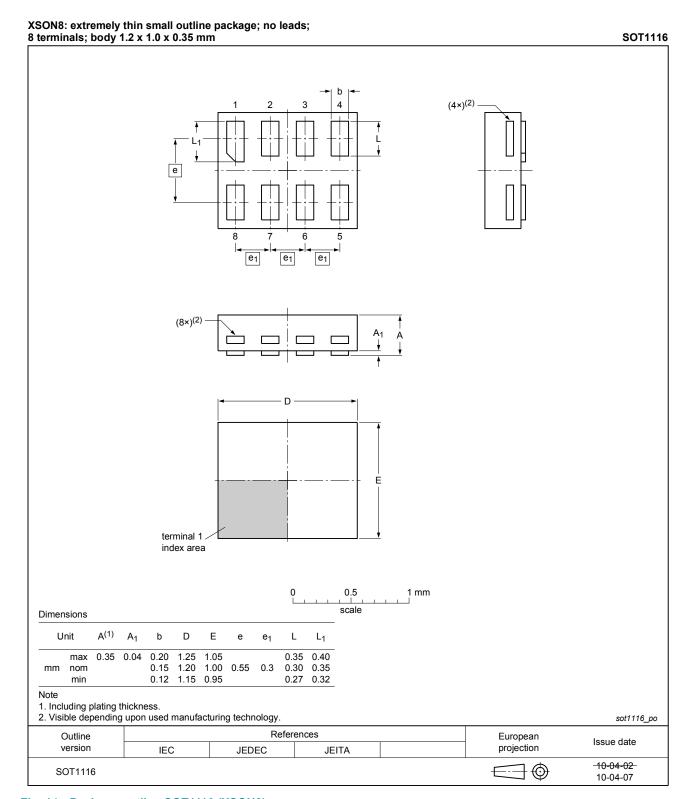


Fig. 14. Package outline SOT1116 (XSON8)

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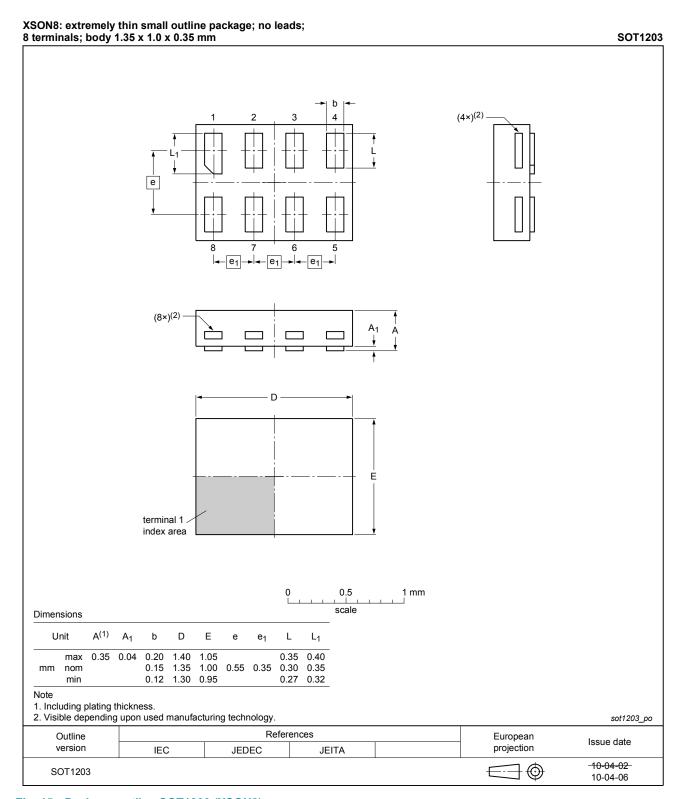


Fig. 15. Package outline SOT1203 (XSON8)

Product data sheet

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13. Abbreviations

Table 11. Abbreviations

Acronym	Description			
CMOS	omplementary Metal-Oxide Semiconductor			
DUT	evice 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			
74LVC2G125 v.16	20180910	Product data sheet	-	74LVC2G125 v.15			
Modifications:	of Nexperia. • Legal texts		ew company nam				
74LVC2G125 v.15	20161215	Product data sheet	-	74LVC2G125 v.14			
Modifications:	• <u>Table 7</u> : The	maximum limits for leakage	e current and sup	ply current have changed.			
74LVC2G125 v.14	20130329	Product data sheet	-	74LVC2G125 v.13			
Modifications:	For type number 74LVC2G125GD XSON8U has changed to XSON8.						
74LVC2G125 v.13	20120622	Product data sheet	-	74LVC2G125 v.12			
Modifications:	For type nur	mber 74LVC2G125GM the S	SOT code has cha	anged to SOT902-2.			
74LVC2G125 v.12	20111201	Product data sheet	-	74LVC2G125 v.11			
Modifications:	Legal pages	updated.					
74LVC2G125 v.11	20100909	Product data sheet	-	74LVC2G125 v.10			
74LVC2G125 v.10	20080611	Product data sheet	-	74LVC2G125 v.9			
74LVC2G125 v.9	20080226	Product data sheet	-	74LVC2G125 v.8			
74LVC2G125 v.8	20070907	Product data sheet	-	74LVC2G125 v.7			
74LVC2G125 v.7	20060523	Product data sheet	-	74LVC2G125 v.6			
74LVC2G125 v.6	20051223	Product data sheet	-	74LVC2G125 v.5			
74LVC2G125 v.5	20050201	Product specification	-	74LVC2G125 v.4			
74LVC2G125 v.4	20040922	Product specification	-	74LVC2G125 v.3			
74LVC2G125 v.3	20040109	Product specification	-	74LVC2G125 v.2			
74LVC2G125 v.2	20030901	Product specification	-	74LVC2G125 v.1			
74LVC2G125 v.1	20030310	Product specification	-	-			

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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 bus buffer/line driver; 3-state

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