Dual bus buffer/line driver; 3-state Rev. 17 — 26 July 2021

1. General description

The 74LVC2G125 is a dual buffer/line driver with 3-state outputs controlled by the output enable inputs ($n\overline{OE}$). 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
- High noise immunity
- I_{OFF} circuitry provides partial Power-down mode operation
- ±24 mA output drive (V_{CC} = 3.0 V)
- CMOS low-power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Overvoltage tolerant inputs to 5.5 V
- 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 JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



3. Ordering information

 Table 1. Ordering information

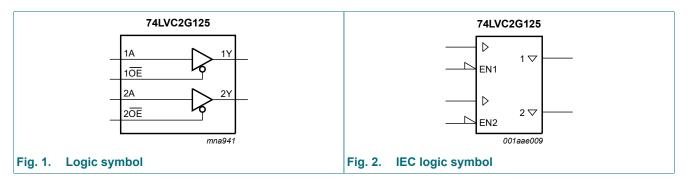
Type number	Package			
	Temperature range	Name	Description	Version
74LVC2G125DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74LVC2G125DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body 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
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				
74LVC2G125GN	VM				
74LVC2G125GS	VM				

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

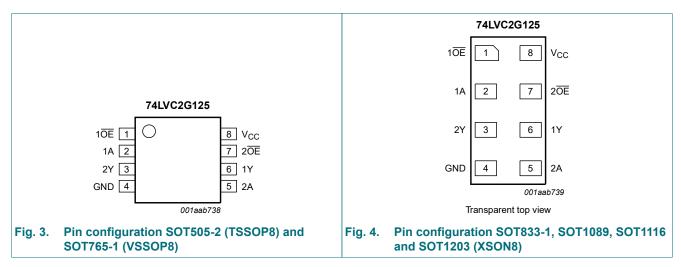
5. Functional diagram



74LVC2G125

6. Pinning information





6.2. Pin description

Table 3. Pin description					
Symbol	Pin	Description			
10E, 20E	1, 7	output enable input (active LOW)			
1A, 2A	2, 5	data input			
GND	4	ground (0 V)			
1Y, 2Y	6, 3	data output			
V _{CC}	8	supply voltage			

7. Functional description

Table 4. Function table

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

	Input	Output
nŌĒ	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	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 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
I _O	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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [2]	-	250	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: P_{tot} derates linearly with 3.1 mW/K above 68 °C.
 For SOT1089 (XSON8) package: P_{tot} derates linearly with 4.0 mW/K above 88 °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.

9. Recommended operating conditions

Table 6. Operating conditions

Symbol	Parameter	Conditions	Min	Мах	Unit
V _{CC}	supply voltage		1.65	5.5	V
VI	input voltage		0	5.5	V
Vo	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

10. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Тур [1]	Max	Min	Мах	1
VIH	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	V
		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
lı	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±1	-	±1	μA
I _{OZ}	OFF-state output current	$V_I = V_{IH} \text{ or } V_{IL};$ $V_O = 5.5 \text{ V or GND}; V_{CC} = 3.6 \text{ V}$	-	±0.1	±2	-	±2	μA
I _{OFF}	power-off leakage current	$V_{1} \text{ or } V_{0} = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	±0.1	±2	-	±2	μA
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	μA
ΔI _{CC}	additional supply current	per pin; V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 2.3 V to 5.5 V	-	5	500	-	500	μA
CI	input capacitance		-	2	-	-	-	pF

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

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground 0 V); for test circuit see Fig. 7.

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C			-40 °C to +125 °C	
			Min	Тур [1]	Max	Min	Max	1
t _{pd}	propagation	nA to nY; see Fig. 5 [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. 6 [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. 6 [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}		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.

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

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

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

[5] C_{PD} is used to determine the dynamic power dissipation (P_D in μ W).

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$

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

Dual bus buffer/line driver; 3-state



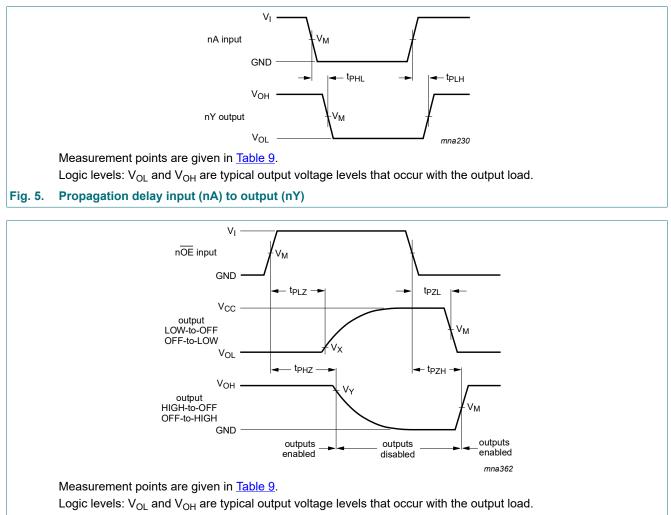
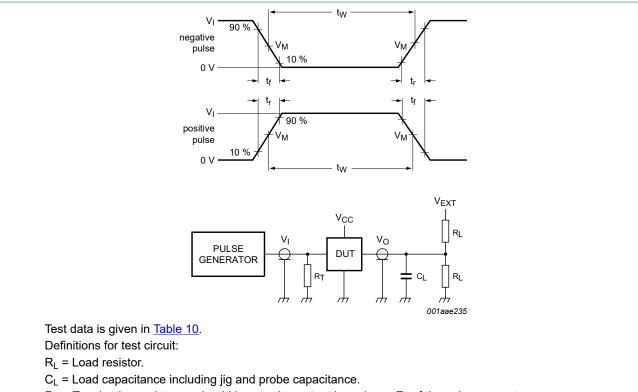


Fig. 6. 3-state output enable and disable times

Table 9. Measurement points							
Supply voltage	Input	Output	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			

Dual bus buffer/line driver; 3-state



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

 V_{EXT} = Test voltage for switching times.

Fig. 7. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input	Input		Load		V _{EXT}		
V _{cc}	VI	t _r , t _f	CL	RL	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}	

Dual bus buffer/line driver; 3-state

12. Package outline

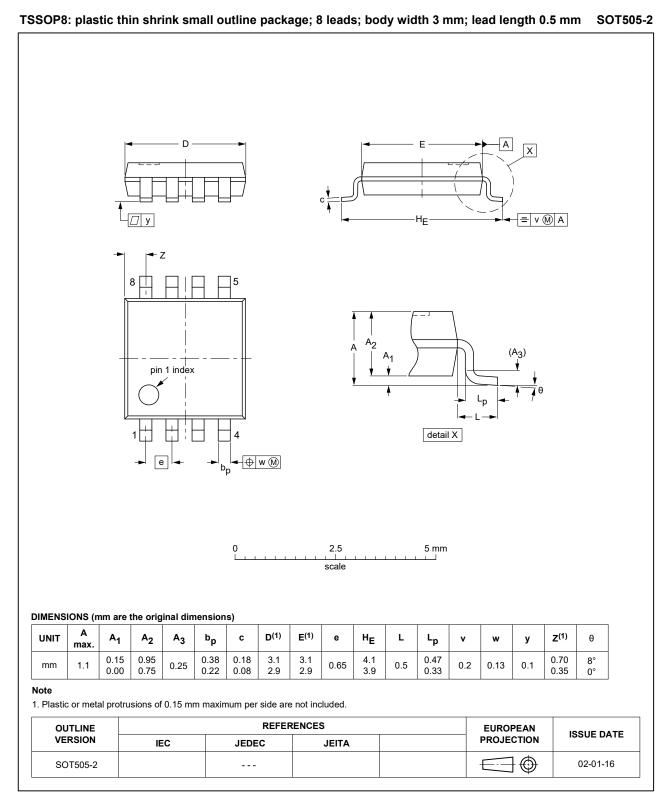
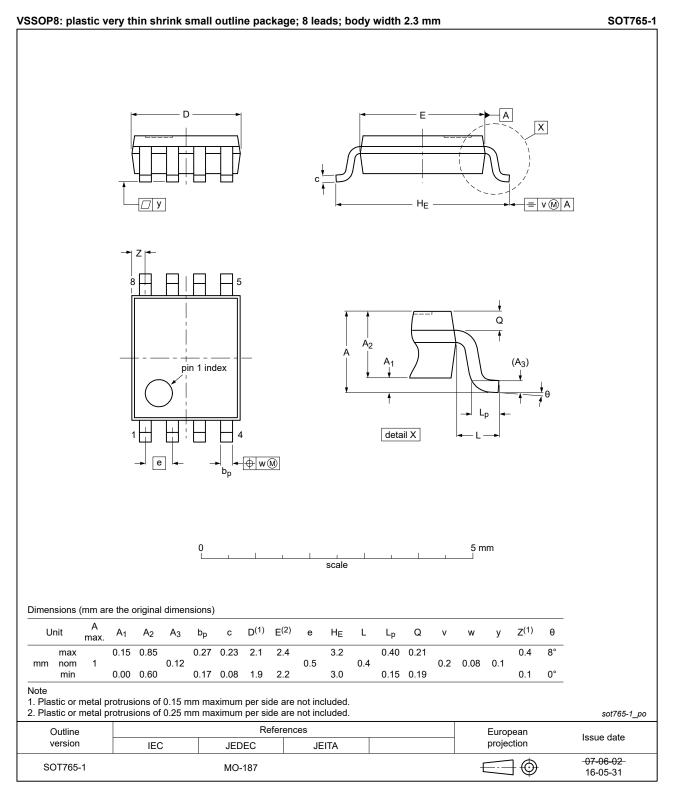


Fig. 8. Package outline SOT505-2 (TSSOP8)

Dual bus buffer/line driver; 3-state





Dual bus buffer/line driver; 3-state

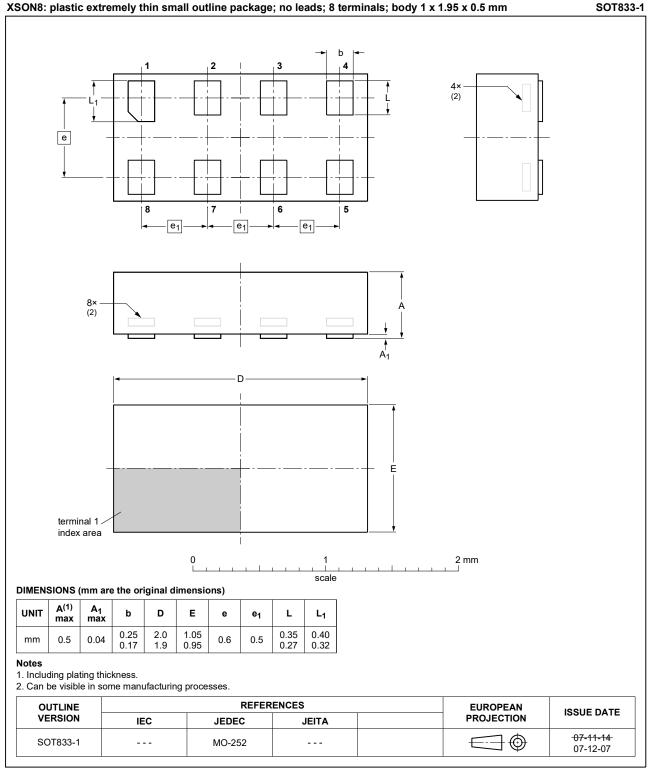
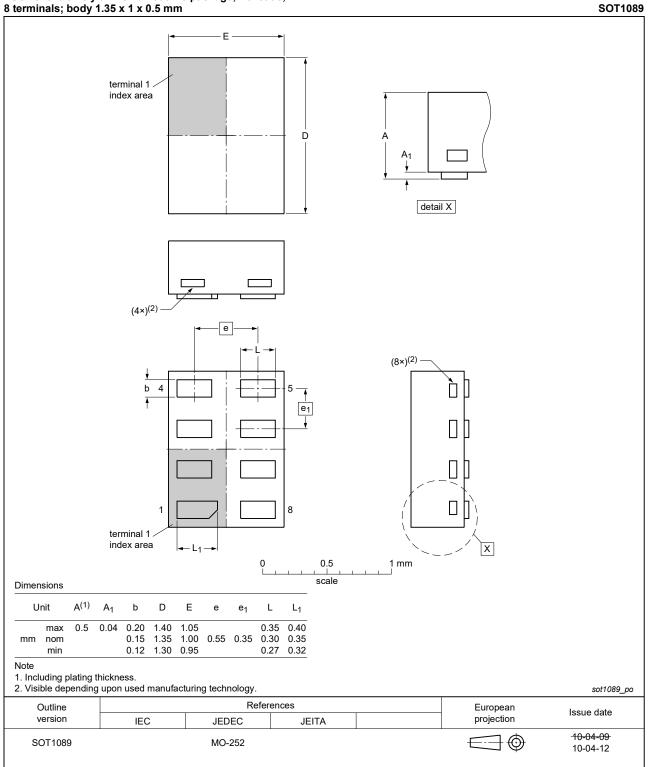


Fig. 10. Package outline SOT833-1 (XSON8)

Dual bus buffer/line driver; 3-state

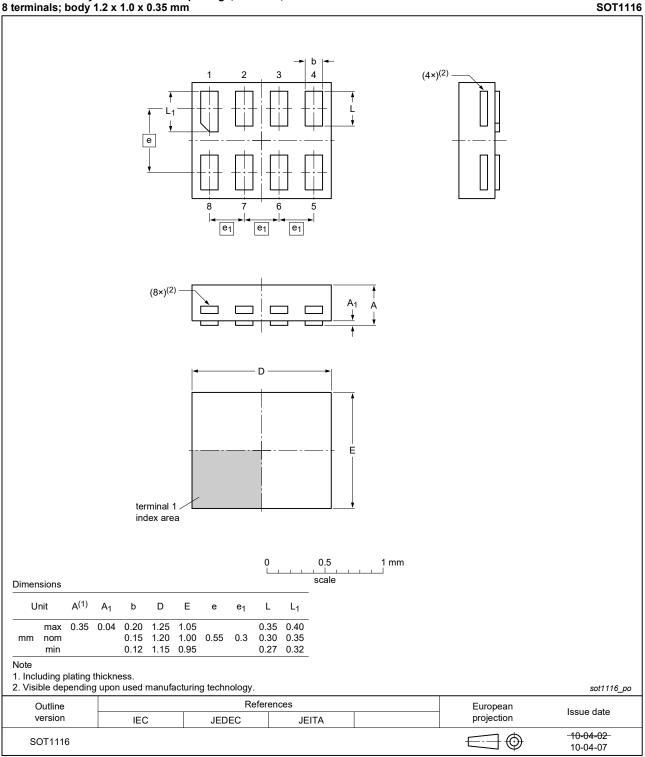


XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1 x 0.5 mm

Fig. 11. Package outline SOT1089 (XSON8)

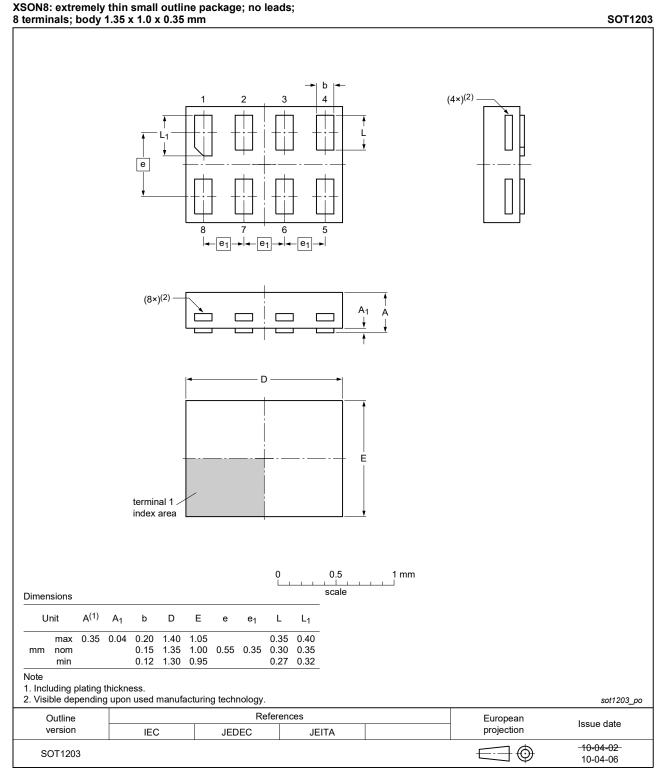
Dual bus buffer/line driver; 3-state

XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.2 x 1.0 x 0.35 mm





Dual bus buffer/line driver; 3-state





13. Abbreviations

Table 11. Abbreviations					
Acronym	Description				
CMOS	Complementary Metal-Oxide Semiconductor				
DUT	Device Under Test				
ESD	ElectroStatic Discharge				
HBM	Human Body Model				
MM	Machine Model				
TTL	Transistor-Transistor Logic				

14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74LVC2G125 v.17	20210726	Product data sheet	-	74LVC2G125 v.16				
Modifications:	Type number	er 74LVC2G125GM (SOTS	902-2/XQFN8) remo	oved.				
		nd <u>Section 2</u> updated.						
	• <u>Section 8</u> : D	Perating values for P _{tot} tota	al power dissipation	updated.				
74LVC2G125 v.16	20180910	Product data sheet	-	74LVC2G125 v.15				
Modifications:	of Nexperia Legal texts 	 In the table of the been adapted to the new company name where appropriate. 						
74LVC2G125 v.15	20161215	Product data sheet	-	74LVC2G125 v.14				
Modifications:	• <u>Table 7</u> : The	e maximum limits for leaka	age current and sup	ply current have changed.				
74LVC2G125 v.14	20130329	Product data sheet	-	74LVC2G125 v.13				
Modifications:	For type nu	mber 74LVC2G125GD XS	ON8U has change	d to XSON8.				
74LVC2G125 v.13	20120622	Product data sheet	-	74LVC2G125 v.12				
Modifications:	For type nui	mber 74LVC2G125GM the	e 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	-	-				

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.

[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".

[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 <u>https://www.nexperia.com</u>.

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Dual bus buffer/line driver; 3-state

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