1. General description

The 74LVC1G19 is a 1-of-2 decoder/demultiplexer with a common output enable. This device buffers the data on input A and passes it to the outputs 1Y (true) and 2Y (complement) when the enable (\overline{E}) input signal is LOW.

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_{OFF} . The I_{OFF} circuitry disables the output, preventing the 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 inputs 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)
 - JESD8B/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.



Ordering information 3.

Table 1. Ordering	g information						
Type number	Package						
	Temperature range	Name	Description	Version			
74LVC1G19GW	–40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363			
74LVC1G19GV	–40 °C to +125 °C	TSOP6	plastic surface-mounted package (TSOP6); 6 leads	SOT457			
74LVC1G19GM	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1.45 \times 0.5 mm	SOT886			
74LVC1G19GF	–40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 \times 1 \times 0.5 mm	SOT891			
74LVC1G19GN	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $0.9 \times 1.0 \times 0.35$ mm	SOT1115			
74LVC1G19GS	–40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body $1.0 \times 1.0 \times 0.35$ mm	SOT1202			

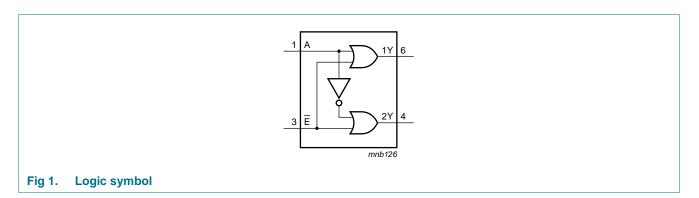
Marking 4.

Table 2. Marking

Type number	Marking code ^[1]
74LVC1G19GW	VY
74LVC1G19GV	V19
74LVC1G19GM	VY
74LVC1G19GF	VY
74LVC1G19GN	VY
74LVC1G19GS	VY

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

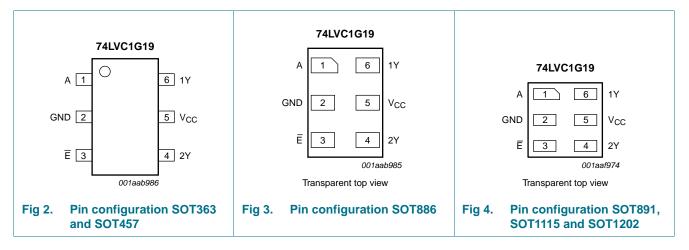
Functional diagram 5.



74LVC1G19 **Product data sheet**

6. Pinning information

6.1 Pinning



6.2 Pin description

Table 3.	Pin description		
Symbol		Pin	Description
А		1	data input
GND		2	ground (0 V)
Е		3	enable input (active LOW)
2Y		4	data output
V _{CC}		5	supply voltage
1Y		6	data output

7. Functional description

Table 4.Function table^[1]

Input		Output		
Ē	Α	1Y	2Y	
L	L	L	Н	
L	Н	Н	L	
Н	Х	Н	Н	

[1] H = HIGH voltage level; L = LOW voltage level; X = don't care

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		<u>[1]</u> –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	Active mode	<u>[1][2]</u> –0.5	V _{CC} + 0.5	V
		Power-down mode	<u>[1][2]</u> –0.5	+6.5	V
lo	output current	$V_{O} = 0 V$ to V_{CC}	-	±50	mA
I _{CC}	supply current		-	100	mA
I _{GND}	ground current		-100	-	mA
P _{tot}	total power dissipation	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$	[3] _	250	mW
T _{stg}	storage temperature		-65	+150	°C

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

[2] When V_{CC} = 0 V (Power-down mode), the output voltage can be 5.5 V in normal operation.

9. Recommended operating conditions

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Тур	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
$\Delta t / \Delta V$	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 <mark>[1]</mark>	Max	Unit
T _{amb} = -	40 °C to +85 °C					
VIH	HIGH-level input voltage	V_{CC} = 1.65 V to 1.95 V	$0.65 \times V_{CC}$	-	-	V
		V_{CC} = 2.3 V to 2.7 V	1.7	-	-	V
		$V_{CC} = 2.7 V \text{ to } 3.6 V$	2.0	-	-	V
		V_{CC} = 4.5 V to 5.5 V	$0.7\times V_{CC}$	-	-	V
VIL	LOW-level input voltage	V_{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
		V_{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	-	-	0.8	V
		V_{CC} = 4.5 V to 5.5 V	-	-	$0.3\times V_{CC}$	V
V _{он}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_O = $-100~\mu\text{A};~V_{CC}$ = 1.65 V to 5.5 V	$V_{CC} - 0.1$	-	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	1.54	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	2.15	-	V
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	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
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 100 $\mu\text{A};V_{CC}$ = 1.65 V to 5.5 V	-	-	0.10	V
		$I_0 = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	0.07	0.45	V
		$I_0 = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	0.12	0.30	V
		$I_0 = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	0.17	0.40	V
		$I_0 = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	0.33	0.55	V
		$I_0 = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.39	0.55	V
I	input leakage current	V_{I} = 5.5 V or GND; V_{CC} = 0 V to 5.5 V	-	±0.1	±5	μA
I _{OFF}	power-off leakage current	V_{CC} = 0 V; V _I or V _O = 5.5 V	-	±0.1	±10	μA
l _{cc}	supply current	$V_I = 5.5 V \text{ or GND};$ $V_{CC} = 1.65 V \text{ to } 5.5 V; I_O = 0 A$	-	0.1	10	μA
∆l _{CC}	additional supply current	per pin; V _{CC} = 2.3 V to 5.5 V; V _I = V _{CC} $- 0.6$ V; I _O = 0 A	-	5	500	μΑ
Cı	input capacitance	V_{CC} = 3.3 V; V_{I} = GND to V_{CC}	-	2.5	-	pF

1-of-2 decoder/demultiplexer

Symbol	Parameter	Conditions	Min	Typ[1]	Мах	Unit
-	40 °C to +125 °C	Conditions		iyp <u> </u>	max	onit
			0.05			N/
V _{IH}	HIGH-level input voltage	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$	$0.65 \times V_{CC}$	-	-	V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7	-	-	V
		$V_{CC} = 2.7 V \text{ to } 3.6 V$	2.0	-	-	V
		$V_{CC} = 4.5 V$ to 5.5 V	$0.7\times V_{CC}$	-	-	V
VIL	LOW-level input voltage	V _{CC} = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
		V_{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		$V_{CC} = 2.7 V \text{ to } 3.6 V$	-	-	0.8	V
		$V_{CC} = 4.5 V$ to 5.5 V	-	-	$0.3\times V_{CC}$	V
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = $-100~\mu\text{A};~V_{CC}$ = 1.65 V to 5.5 V	$V_{CC}-0.1$	-	-	V
		$I_{O} = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	0.95	-	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.7	-	-	V
		$I_0 = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	1.9	-	-	V
		$I_0 = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.0	-	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.4	-	-	V
V _{OL}	LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		I_{O} = 100 μ A; V _{CC} = 1.65 V to 5.5 V	-	-	0.10	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
		$I_0 = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	-	0.60	V
		$I_0 = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.80	V
		$I_0 = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	-	0.80	V
lı	input leakage current	$V_{I} = 5.5$ V or GND; $V_{CC} = 0$ V to 5.5 V	-	-	±20	μA
I _{OFF}	power-off leakage current	$V_{CC} = 0 V; V_1 \text{ or } V_0 = 5.5 V$	-	-	±20	μA
I _{CC}	supply current	$V_{I} = 5.5 \text{ V or GND};$ $V_{CC} = 1.65 \text{ V to 5.5 V; }I_{O} = 0 \text{ A}$	-	-	40	μA
Δl _{CC}	additional supply current	per pin; $V_{CC} = 2.3 \text{ V}$ to 5.5 V; $V_I = V_{CC} - 0.6 \text{ V}$; $I_O = 0 \text{ A}$	-	-	5000	μΑ

Static characteristics ... continued Table 7.

anad to CND (a fa ound 01/1

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

11. Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see <u>Figure 6</u>.

Symbol	Parameter	Conditions	–40 °C to +85 °C			–40 °C to	–40 °C to +125 °C		
				Min	Typ <mark>[1]</mark>	Мах	Min	Max	
t _{pd}	propagation delay	A, E to nY; see Figure 5	[2]						
		V_{CC} = 1.65 V to 1.95 V		1.0	4.0	10.5	1.0	13.1	ns
		V_{CC} = 2.3 V to 2.7 V		0.5	2.5	6.2	0.5	7.7	ns
		$V_{CC} = 2.7 V$		1.0	2.8	6.5	1.0	8.1	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$		0.5	2.5	5.2	0.5	6.0	ns
		V_{CC} = 4.5 V to 5.5 V		0.5	1.8	3.9	0.5	5.0	ns
C _{PD}	power dissipation capacitance	V_{I} = GND to $V_{CC};V_{CC}$ = 3.3 V	<u>[3]</u>	-	18.9	-	-	-	pF

[1] 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.

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

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

 $\mathsf{P}_{D} = C_{PD} \times V_{CC}{}^2 \times f_i \times N + \sum (C_L \times V_{CC}{}^2 \times f_o)$ where:

 f_i = input frequency in MHz;

 $f_o = output frequency in MHz;$

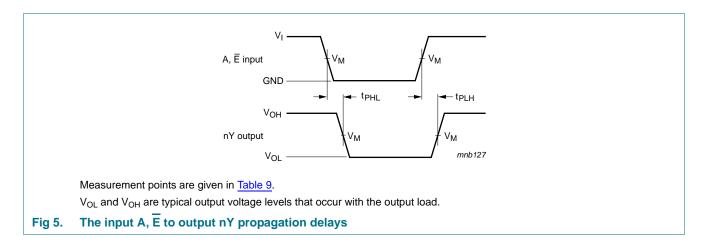
 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V;

N = number of inputs switching;

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

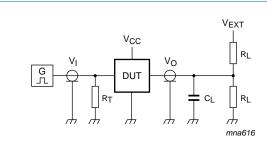
12. AC waveforms



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74LVC1G19

Table 9.Measurement points		
Supply voltage	Input	Output
V _{cc}	V _M	V _M
1.65 V to 1.95 V	$0.5 imes V_{CC}$	$0.5 imes V_{CC}$
2.3 V to 2.7 V	$0.5 imes V_{CC}$	$0.5 imes V_{CC}$
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	$0.5 imes V_{CC}$	$0.5 imes V_{CC}$



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_0 of the pulse generator.

 V_{EXT} = External voltage for measuring switching times.

Fig 6. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input		Load		V _{EXT}
V _{CC}	VI	$t_r = t_f$	CL	RL	t _{PLH} , t _{PHL}
1.65 V to 1.95 V	V _{CC}	\leq 2.0 ns	30 pF	1 kΩ	open
2.3 V to 2.7 V	V _{CC}	\leq 2.0 ns	30 pF	500 Ω	open
2.7 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open
3.0 V to 3.6 V	2.7 V	\leq 2.5 ns	50 pF	500 Ω	open
4.5 V to 5.5 V	V _{CC}	\leq 2.5 ns	50 pF	500 Ω	open

1-of-2 decoder/demultiplexer

13. Package outline

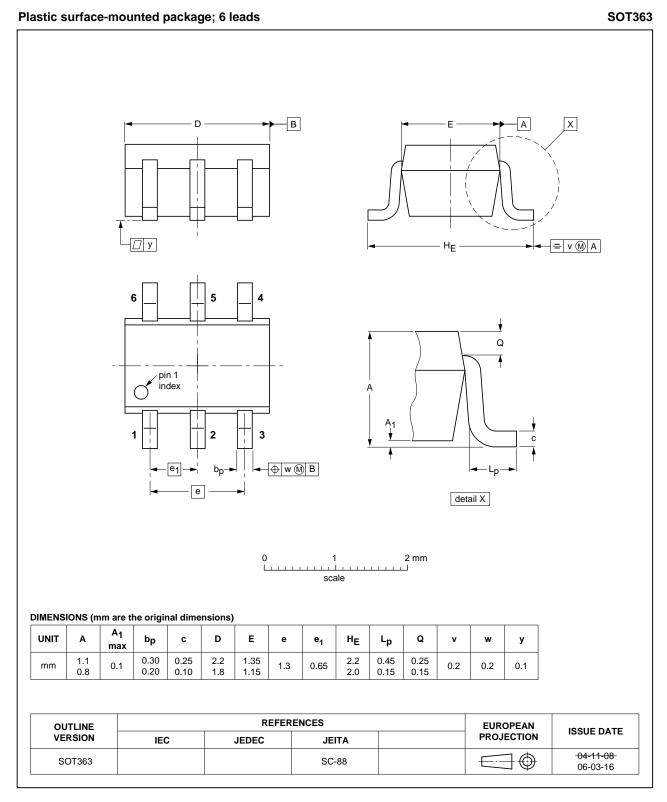


Fig 7. Package outline SOT363 (SC-88)

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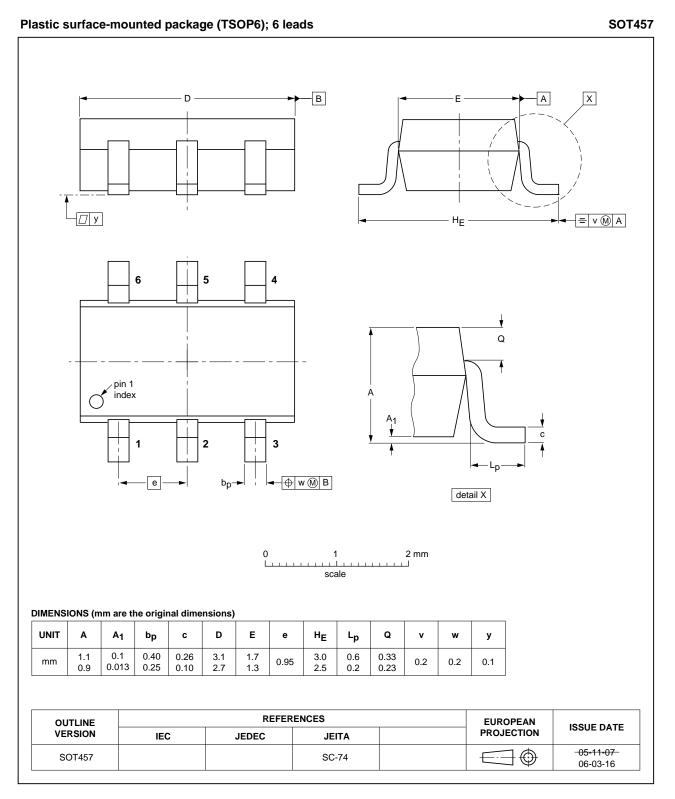
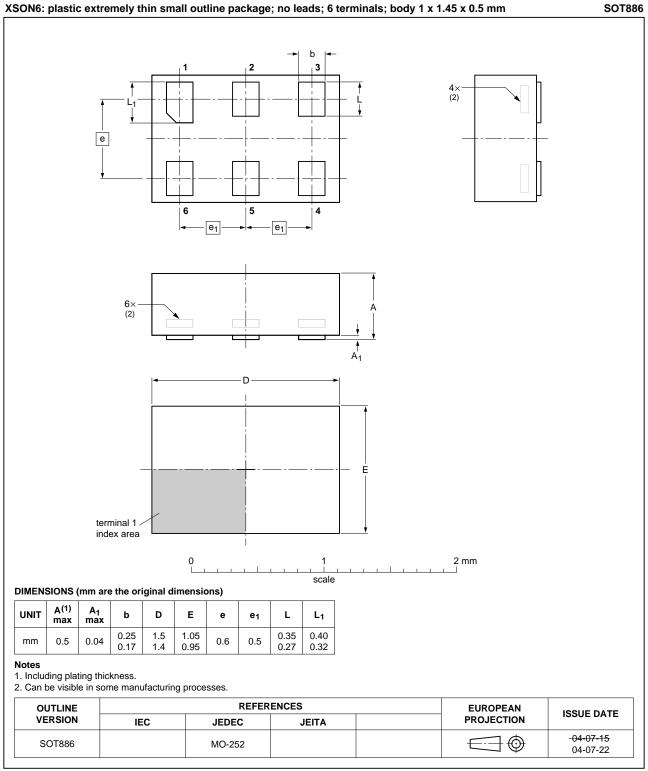


Fig 8. Package outline SOT457 (TSOP6)

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XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm

Package outline SOT886 (XSON6) Fig 9.

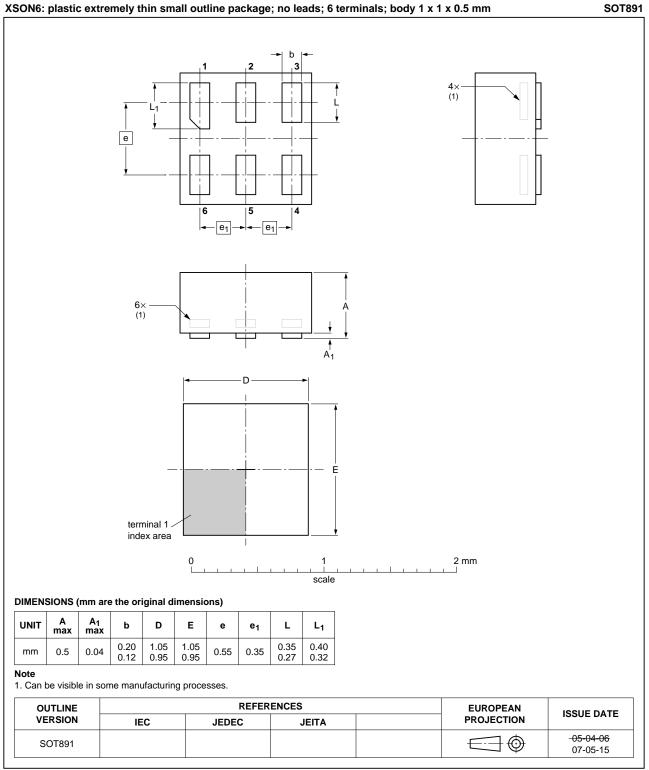
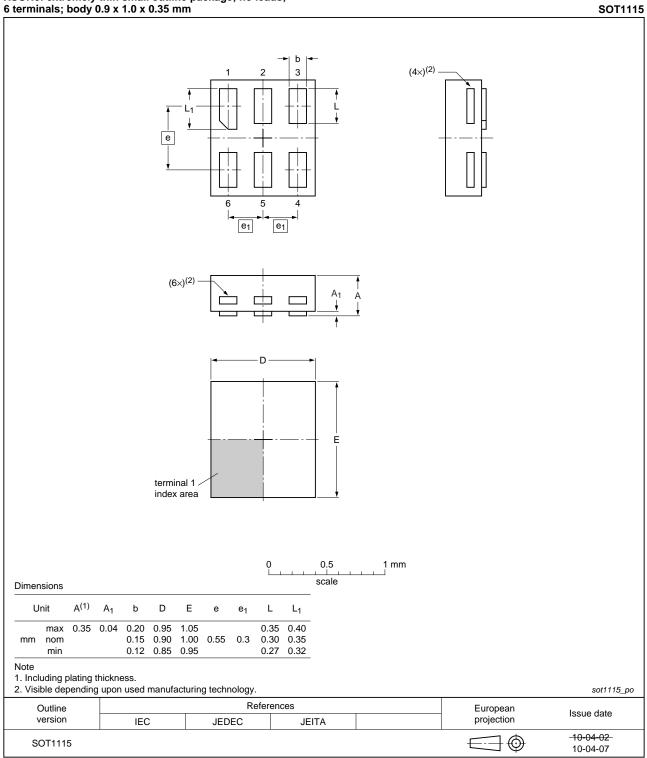


Fig 10. Package outline SOT891 (XSON6)

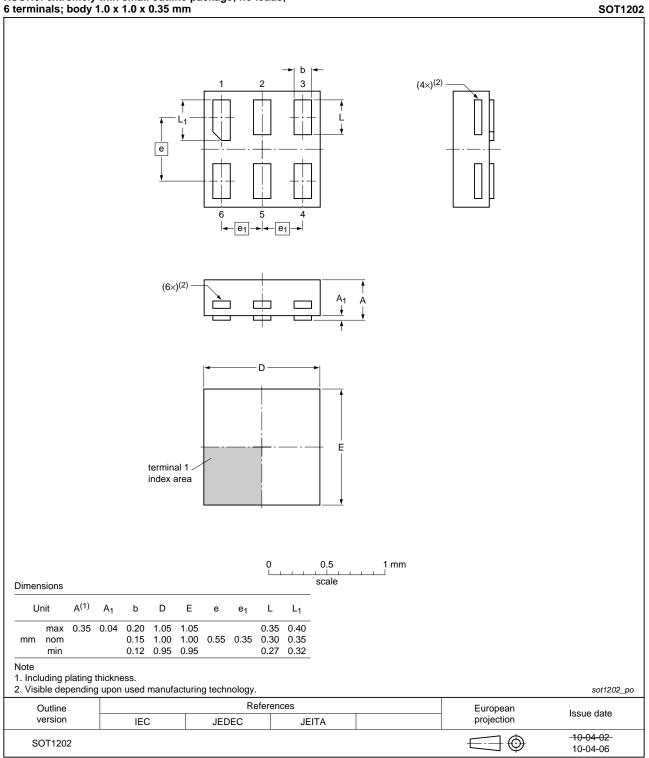
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XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

Fig 11. Package outline SOT1115 (XSON6)

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XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm

Fig 12. Package outline SOT1202 (XSON6)

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1-of-2 decoder/demultiplexer

14. Abbreviations

Description
Complementary Metal Oxide Semiconductor
Device Under Test
ElectroStatic Discharge
Human Body Model
Machine Model
Transistor-Transistor Logic

15. Revision history

Table 12. Revision history					
Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC1G19 v.6	20111206	Product data sheet	-	74LVC1G19 v.5	
Modifications:	 Legal pages u 	updated.			
74LVC1G19 v.5	20100805	Product data sheet	-	74LVC1G19 v.4	
74LVC1G19 v.4	20070827	Product data sheet	-	74LVC1G19 v.3	
74LVC1G19 v.3	20070221	Product data sheet	-	74LVC1G19 v.2	
74LVC1G19 v.2	20041018	Product specification	-	74LVC1G19 v.1	
74LVC1G19 v.1	20030901	Product specification	-	-	

16. Legal information

16.1 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 URL http://www.nxp.com.

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NXP Semiconductors' specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies NXP Semiconductors for any liability, damages or failed product claims resulting from customer design and use of the product for automotive applications beyond NXP Semiconductors' standard warranty and NXP Semiconductors' product specifications.

16.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

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