1. General description

The 74LVC1G14 provides the inverting buffer function with Schmitt-trigger input. It is capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

The input can be driven from either 3.3 V or 5 V devices. This feature allows the use of this device in a mixed 3.3 V and 5 V environment. Schmitt-trigger action at the input makes the circuit tolerant for slower input rise and fall time.

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
- 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).
- ± 24 mA output drive (V_{CC} = 3.0 V)
- CMOS low power consumption
- Latch-up performance exceeds 250 mA
- Direct interface with TTL levels
- Unlimited rise and fall times
- Input accepts voltages up to 5 V
- Multiple package options
- ESD protection:
 - HBM JESD22-A114F exceeds 2000 V
 - MM JESD22-A115-A exceeds 200 V.
- Specified from -40 °C to +85 °C and -40 °C to +125 °C.

3. Applications

- Wave and pulse shaper
- Astable multivibrator
- Monostable multivibrator

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4. Ordering information

Type number	Package							
	Temperature range	Name	Description					
74LVC1G14GW	–40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	SOT353-1				
74LVC1G14GV	–40 °C to +125 °C	SC-74A	plastic surface-mounted package; 5 leads	SOT753				
74LVC1G14GM	–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				
74LVC1G14GF	–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				
74LVC1G14GN	–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				
74LVC1G14GS	–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				
74LVC1G14GX	−40 °C to +125 °C	X2SON5	X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body $0.8 \times 0.8 \times 0.35$ mm	SOT1226				

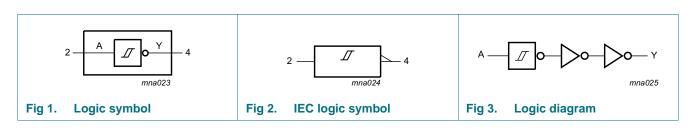
5. Marking

Table 2. Marking

Type number	Marking code ^[1]
74LVC1G14GW	VF
74LVC1G14GV	V14
74LVC1G14GM	VF
74LVC1G14GF	VF
74LVC1G14GN	VF
74LVC1G14GS	VF
74LVC1G14GX	VF

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

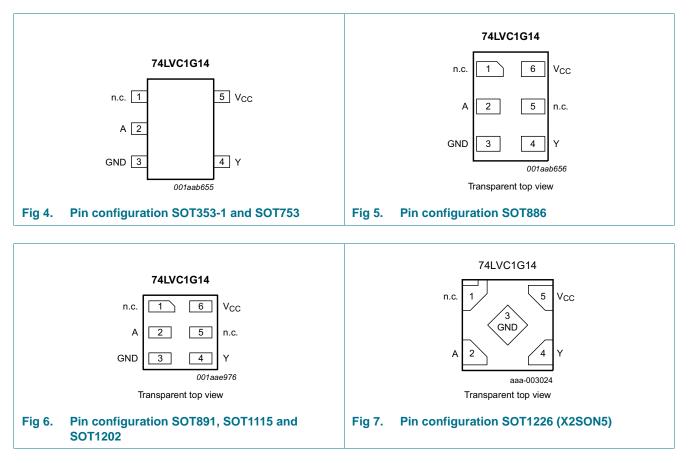
6. Functional diagram



74LVC1G14

7. Pinning information

7.1 Pinning



7.2 Pin description

Symbol	Pin		Description
	TSSOP5 and X2SON5	XSON6	
n.c.	1	1	not connected
A	2	2	data input
GND	3	3	ground (0 V)
Y	4	4	data output
n.c.	-	5	not connected
V _{CC}	5	6	supply voltage

8. Functional description

Table 4.	Function	table ^[1]
----------	-----------------	----------------------

Input	Output
A	Y
L	Н
Н	L

[1] H = HIGH voltage level; L = LOW voltage level

9. 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
VI	input voltage		<u>[1]</u>	-0.5	+6.5	V
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
I _{IK}	input clamping current	V ₁ < 0 V		-50	-	mA
I _{ОК}	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V		-	±50	mA
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	$T_{amb} = -40 \ ^{\circ}C \text{ to } +125 \ ^{\circ}C$	[3]	-	250	mW

[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.

[3] For TSSOP5 and SC-74A packages: above 87.5 °C the value of P_{tot} derates linearly with 4.0 mW/K. For XSON6 and X2SON5 package: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

10. 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	

11. 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
				Typ <mark>[1]</mark>	Max	Min	Max	-
V _{OH}	HIGH-level	$V_{I} = V_{T+} \text{ or } V_{T-}$						
	output voltage	I _O = -100 μA; V _{CC} = 1.65 V to 5.5 V	V _{CC} - 0.1	-	-	$V_{CC}-0.1$	-	V
		$I_0 = -4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	1.2	1.54	-	0.95	-	V
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.9	2.15	-	1.7	-	V
		$I_0 = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	2.50	-	1.9	-	V
		$I_0 = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.3	2.62	-	2.0	-	V
		$I_{O} = -32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.8	4.11	-	3.4	-	V
V _{OL}	LOW-level	$V_{I} = V_{T+} \text{ or } V_{T-}$						
	output voltage	I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V	-	-	0.10	-	0.10	V
		I _O = 4 mA; V _{CC} = 1.65 V	-	0.07	0.45	-	0.70	V
		I _O = 8 mA; V _{CC} = 2.3 V	-	0.12	0.30	-	0.45	V
		$I_0 = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	-	0.17	0.40	-	0.60	V
		$I_0 = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	0.33	0.55	-	0.80	V
		$I_0 = 32 \text{ mA}; V_{CC} = 4.5 \text{ V}$	-	0.39	0.55	-	0.80	V
lı	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	-	±0.1	±1	-	±1	μΑ
I _{OFF}	power-off leakage current	$V_{I} \text{ or } V_{O} = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	±0.1	±2	-	±2	μΑ
I _{CC}	supply current	$V_{I} = 5.5 \text{ V or GND}; I_{O} = 0 \text{ A};$ $V_{CC} = 1.65 \text{ V to } 5.5 \text{ V}$	-	0.1	4	-	4	μΑ
Δl _{CC}	additional supply current		-	5	500	-	500	μA
CI	input capacitance	V_{CC} = 3.3 V; V_{I} = GND to V_{CC}	-	5.0	-	-	-	pF

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

Table 8. Transfer characteristics

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

Symbol	Parameter	Conditions	-40	–40 °C to +85 °C			–40 °C to +125 °C	
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
V _{T+} positive-going threshold voltage	see Figure 10 and Figure 11							
	V _{CC} = 1.8 V	0.82	1.0	1.14	0.79	1.14	V	
		V _{CC} = 2.3 V	1.03	1.2	1.40	1.00	1.40	V
		V _{CC} = 3.0 V	1.29	1.5	1.71	1.26	1.71	V
		V _{CC} = 4.5 V	1.84	2.1	2.36	1.81	2.36	V
		V _{CC} = 5.5 V	2.19	2.5	2.79	2.16	2.79	V

74LVC1G14

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Symbol Parameter		Conditions		–40 °C to +85 °C			–40 °C to +125 °C	
-			Min	Typ[1]	Max	Min	Max	_
V _{T-}	negative-going	see Figure 10 and Figure 11						
	threshold voltage	V _{CC} = 1.8 V	0.46	0.6	0.75	0.46	0.78	V
		V _{CC} = 2.3 V	0.65	0.8	0.96	0.65	0.99	V
		V _{CC} = 3.0 V	0.88	1.0	1.24	0.88	1.27	V
		V _{CC} = 4.5 V	1.32	1.5	1.84	1.32	1.87	V
		V _{CC} = 5.5 V	1.58	1.8	2.24	1.58	2.27	V
V _H	hysteresis voltage	$(V_{T+} - V_{T-})$; see <u>Figure 10</u> , <u>Figure 11</u> and <u>Figure 12</u>						
		V _{CC} = 1.8 V	0.26	0.4	0.51	0.19	0.51	V
		V _{CC} = 2.3 V	0.28	0.4	0.57	0.22	0.57	V
		V _{CC} = 3.0 V	0.31	0.5	0.64	0.25	0.64	V
		V _{CC} = 4.5 V	0.40	0.6	0.77	0.34	0.77	V
		V _{CC} = 5.5 V	0.47	0.6	0.88	0.41	0.88	V

Table 8. Transfer characteristics ...continued

Voltages are referenced to GND (ground = 0 V); for load circuit see <u>Figure 9</u>.

[1] All typical values are measured at $T_{amb} = 25 \text{ °C}$

12. Dynamic characteristics

Table 9. Dynamic characteristics

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

Symbol	Parameter	Conditions	–40 °C to +85 °C		5 °C	-40 °C to	+125 °C	Unit
			Min	Typ <mark>[1]</mark>	Max	Min	Max	
t _{pd}	propagation delay	A to Y; see Figure 8 [2]						
		V _{CC} = 1.65 V to 1.95 V	1.0	4.1	11.0	1.0	14.0	ns
		V_{CC} = 2.3 V to 2.7 V	0.7	2.8	6.5	0.7	8.5	ns
		V _{CC} = 2.7 V	0.7	3.2	6.5	0.7	8.5	ns
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	0.7	3.0	5.5	0.7	7.0	ns
		V_{CC} = 4.5 V to 5.5 V	0.7	2.2	5.0	0.7	6.5	ns
C _{PD}	power dissipation capacitance	$V_{CC} = 3.3 \text{ V}; \text{ V}_{I} = \text{GND to } \text{V}_{CC}$ [3]	-	15.4	-	-	-	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).

$$\begin{split} P_{D} &= C_{PD} \times V_{CC}{}^{2} \times f_{i} + (C_{L} \times V_{CC}{}^{2} \times f_{o}) \text{ where:} \\ f_{i} &= \text{input frequency in MHz;} \end{split}$$

 $f_o = output frequency in MHz;$

 C_L = output load capacitance in pF;

 V_{CC} = supply voltage in V.

13. Waveforms

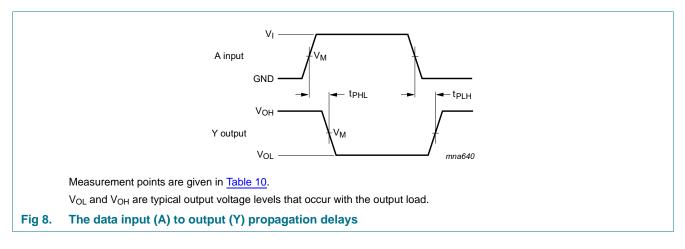
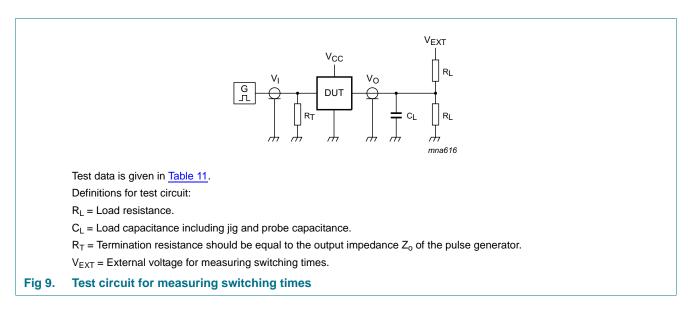


Table 10. Measurement points

Supply voltage	Input	Output
V _{cc}	V _M	V _M
1.65 V to 1.95 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
2.3 V to 2.7 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$
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	$0.5 imes V_{CC}$	$0.5 \times V_{CC}$



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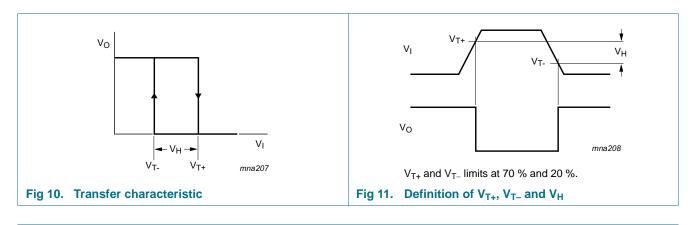
74LVC1G14

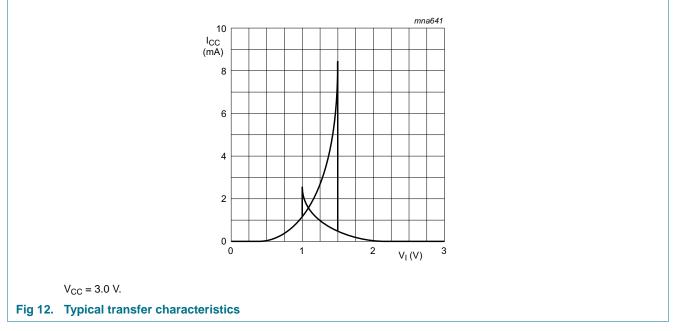
Single Schmitt-trigger inverter

Table	11.	Test	data

Supply voltage	Input	Input		Load	
V _{CC}	VI	$t_r = t_f$	C∟	RL	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

14. Waveforms transfer characteristics





15. Application information

The slow input rise and fall times cause additional power dissipation, this can be calculated using the following formula:

 $P_{add} = f_i \times (t_r \times \Delta I_{CC(AV)} + t_f \times \Delta I_{CC(AV)}) \times V_{CC} \text{ where:}$

 P_{add} = additional power dissipation (μ W);

 $f_i = input frequency (MHz);$

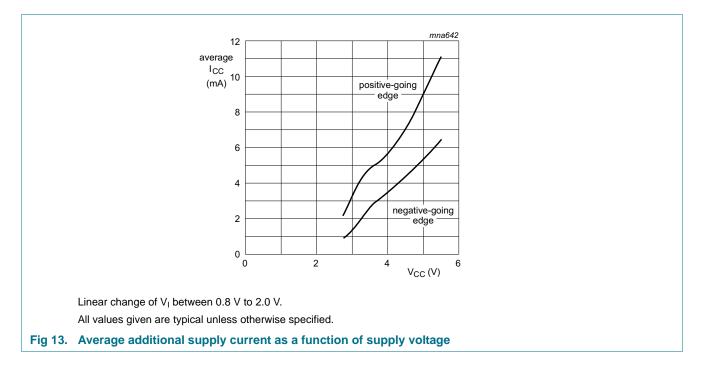
 t_r = input rise time (ns); 10 % to 90 %;

 t_f = input fall time (ns); 90 % to 10 %;

 $\Delta I_{CC(AV)}$ = average additional supply current (µA).

Average $\Delta I_{CC(AV)}$ differs with positive or negative input transitions, as shown in Figure 13.

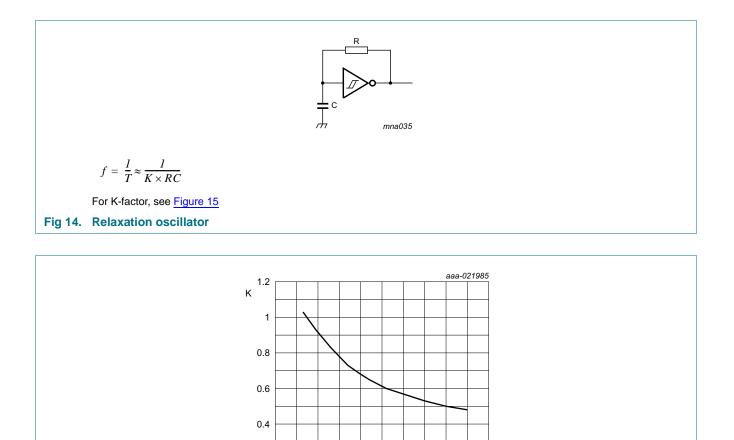
An example of a relaxation circuit using the 74LVC1G14 is shown in Figure 14.



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Single Schmitt-trigger inverter



0.2

0

Fig 15. Typical K-factor for relaxation oscillator

1

2

3

 $v_{CC}^{5}(V)$

6

4

16. Package outline

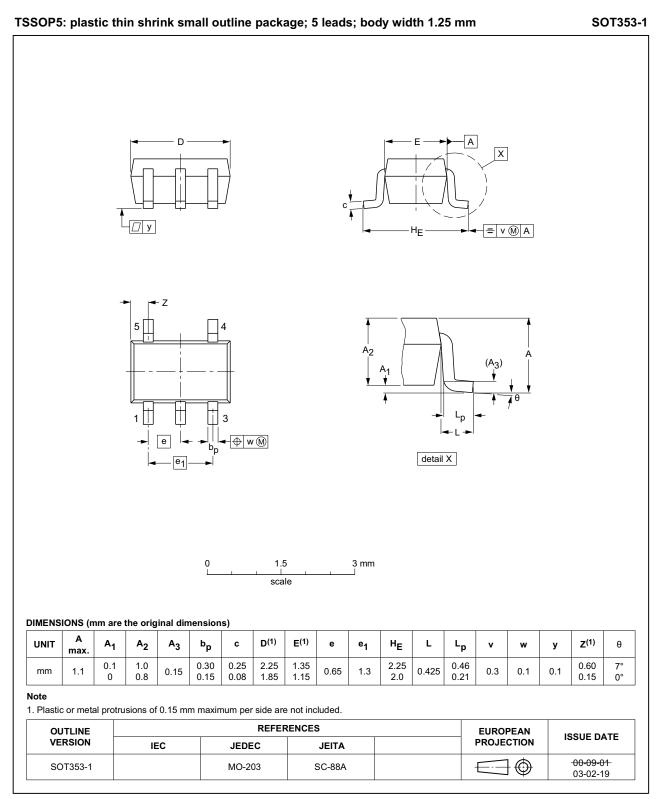


Fig 16. Package outline SOT353-1 (TSSOP5)

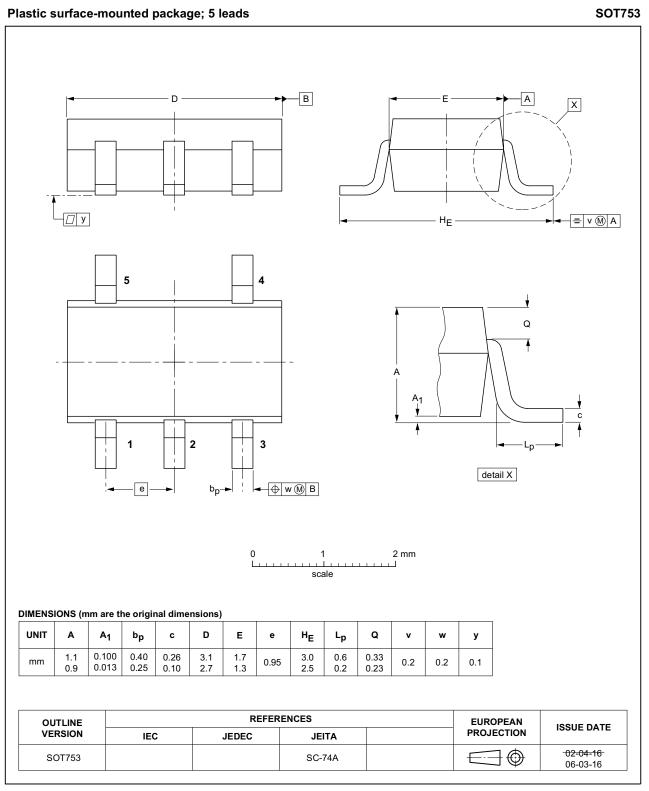
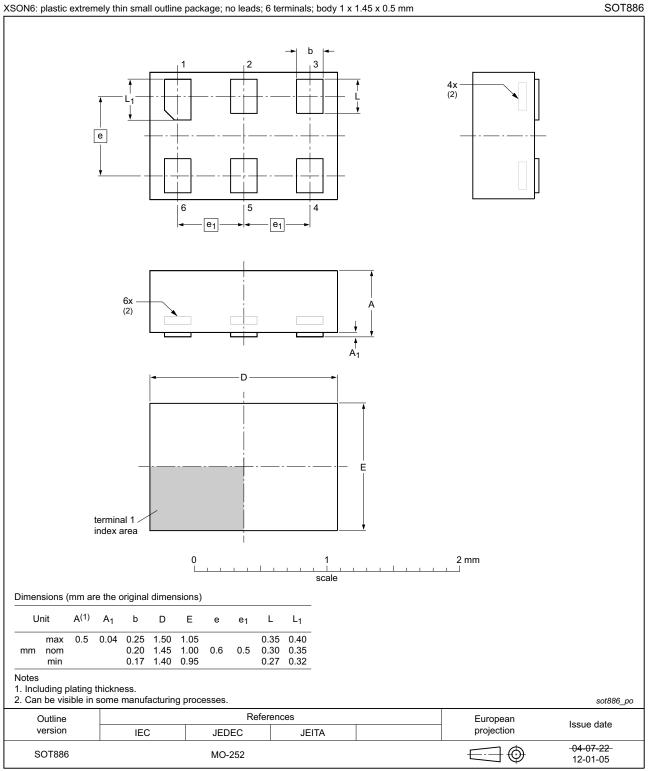


Fig 17. Package outline SOT753 (SC-74A)

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Single Schmitt-trigger inverter



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

Fig 18. Package outline SOT886 (XSON6)

Single Schmitt-trigger inverter

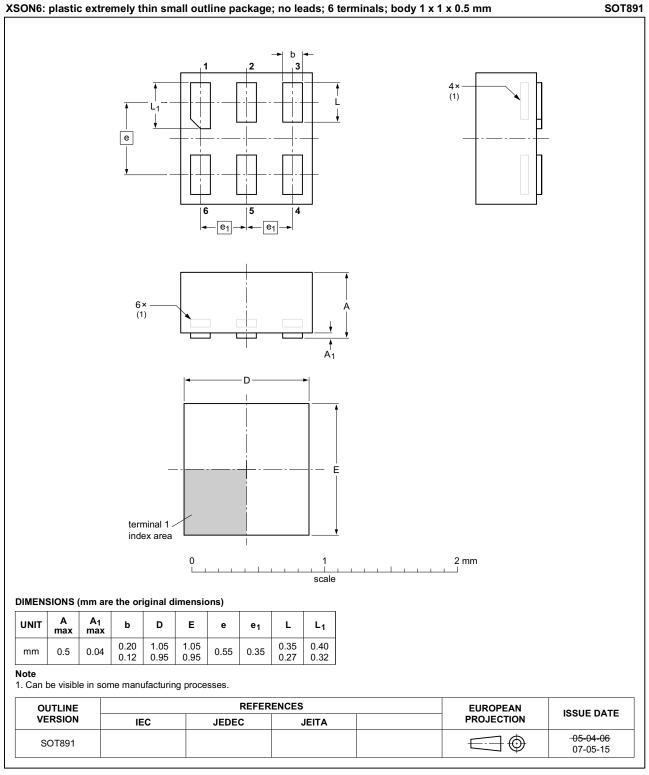
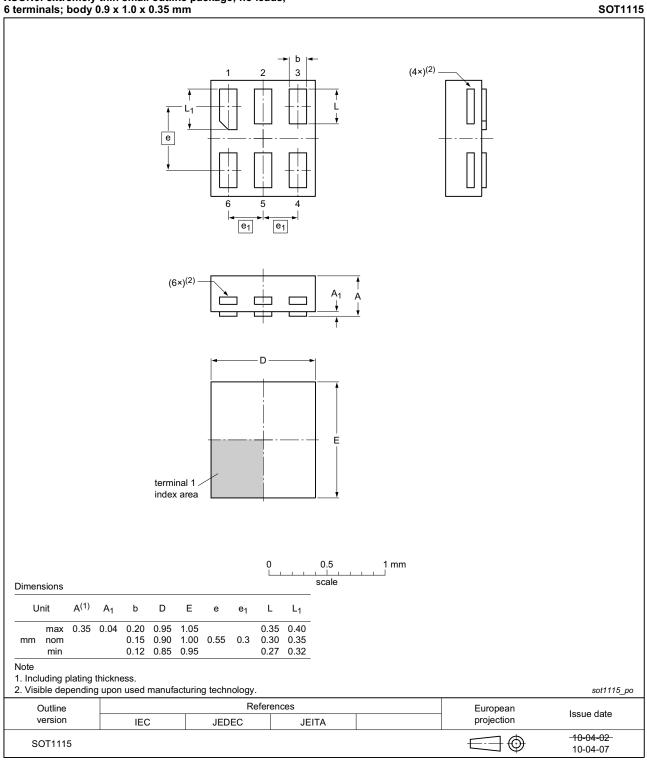
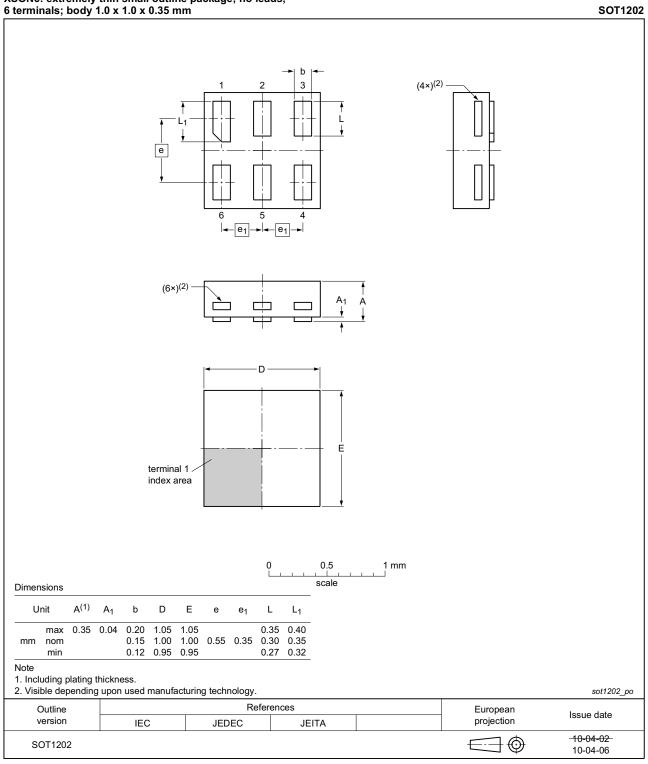


Fig 19. Package outline SOT891 (XSON6)



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

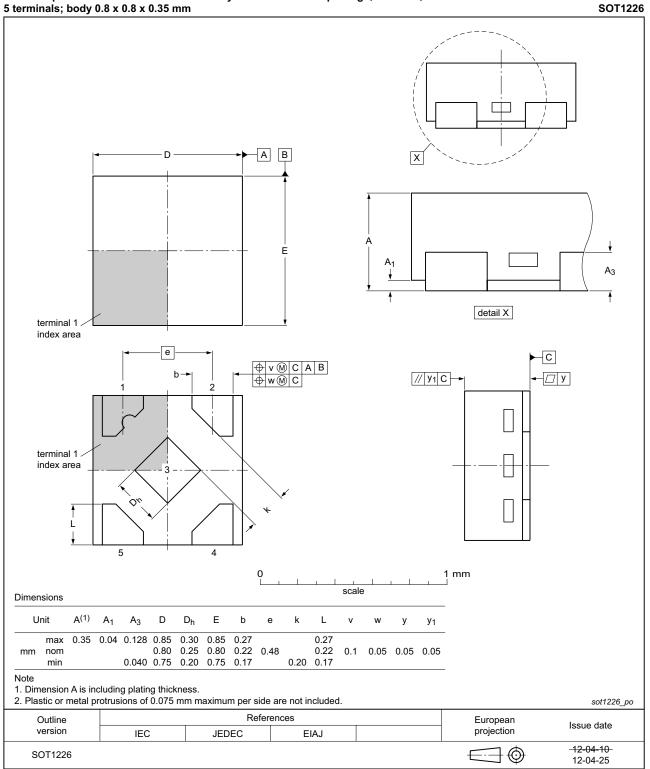
Fig 20. Package outline SOT1115 (XSON6)



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

Fig 21. Package outline SOT1202 (XSON6)

Single Schmitt-trigger inverter



X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals: body 0.8 x 0.8 x 0.35 mm

Fig 22. Package outline SOT1226 (X2SON5)

17. Abbreviations

Table 12. Abbreviations		
Acronym	Description	
CMOS	Complementary Metal Oxide Semiconductor	
TTL	Transistor-Transistor Logic	
НВМ	Human Body Model	
ESD	ElectroStatic Discharge	
MM	Machine Model	
DUT	Device Under Test	

18. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC1G14 v.14	20161202	Product data sheet	-	74LVC1G14 v.13
Modifications:	• <u>Table 7</u> : The	e maximum limits for leakage	e current and supply cu	irrent have changed.
74LVC1G14 v.13	20160315	Product data sheet	-	74LVC1G14 v.12
Modifications:	• Figure 15 a	dded (typical K-factor for rela	axation oscillator).	
74LVC1G14 v.12	20120806	Product data sheet	-	74LVC1G14 v.11
Modifications:	 Package ou 	Itline drawing of SOT1226 (F	igure 22) modified.	
74LVC1G14 v.11	20120412	Product data sheet	-	74LVC1G14 v.10
Modifications:	 Added type 	number 74LVC1G14GX (SC	DT1226)	
	 Package ou 	Itline drawing of SOT886 (Fig	gure 18) modified.	
74LVC1G14 v.10	20111206	Product data sheet	-	74LVC1G14 v.9
Modifications:	 Legal pages 	s updated.		
74LVC1G14 v.9	20110922	Product data sheet	-	74LVC1G14 v.8
74LVC1G14 v.8	20101110	Product data sheet	-	74LVC1G14 v.7
74LVC1G14 v.7	20070718	Product data sheet	-	74LVC1G14 v.6
74LVC1G14 v.6	20060615	Product data sheet	-	74LVC1G14 v.5
74LVC1G14 v.5	20040910	Product specification	-	74LVC1G14 v.4
74LVC1G14 v.4	20021119	Product specification	-	74LVC1G14 v.3
74LVC1G14 v.3	20020521	Product specification	-	74LVC1G14 v.2
74LVC1G14 v.2	20010406	Product specification	-	74LVC1G14 v.1
74LVC1G14 v.1	20001212	Product specification	-	-
		1		

19. Legal information

19.1 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.nexperia.com.

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Product data sheet

Single Schmitt-trigger inverter

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