74LVC3G17

Triple non-inverting Schmitt trigger with 5 V tolerant input Rev. 13 — 27 November 2018 Product data sheet

1. General description

The 74LVC3G17 provides three non-inverting buffers with Schmitt trigger input. It is capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of the 74LVC3G17 as a translator 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
- 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
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

3. Applications

· Wave and pulse shapers for highly noisy environments



Triple non-inverting Schmitt trigger with 5 V tolerant input

4. Ordering information

Table 1. Ordering information

Type number	Package			
	Temperature range	Name	Description	Version
74LVC3G17DP	-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
74LVC3G17DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74LVC3G17GT	-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
74LVC3G17GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089
74LVC3G17GM	-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
74LVC3G17GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116
74LVC3G17GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203

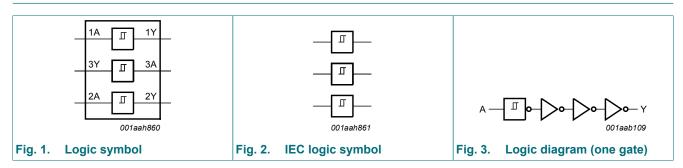
5. Marking

Table 2. Marking codes

Type number	Marking code [1]
74LVC3G17DP	V17
74LVC3G17DC	V17
74LVC3G17GT	V17
74LVC3G17GF	VV
74LVC3G17GM	V17
74LVC3G17GN	VV
74LVC3G17GS	VV

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

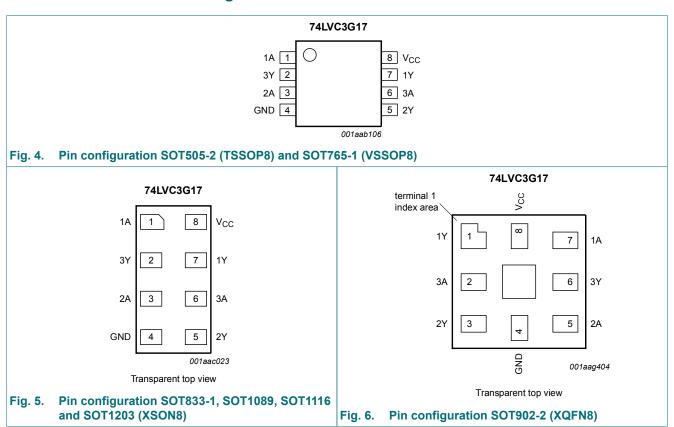
6. Functional diagram



Triple non-inverting Schmitt trigger with 5 V tolerant input

7. Pinning information

7.1. Pinning



7.2. Pin description

Table 3. Pin description

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

8. Functional description

Table 4. Function table

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

Input	Output
nA	nY
L	L
Н	Н

74LVC3G17

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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
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
V_{O}	output voltage	Active mode	[1]	-0.5	V _{CC} + 0.5	V
		Power-down mode; V _{CC} = 0 V	[1][2]	-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 °C to +125 °C	[3]	-	250	mW

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

10. 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		0	V _{CC}	V
T _{amb}	ambient temperature		-40	+125	°C

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

^[3] 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 and XQFN8 packages: above 118 °C the value of P_{tot} derates linearly with 7.8 mW/K.

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11. Static characteristics

Table 7. Static characteristics

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

Symbol	Parameter	Conditions		T _{amb} =	-40 °C to	+85 °C	T _{amb} = -40 °C to +125 °C		Unit
				Min	Typ [1]	Max	Min	Max	
V _{OL}	LOW-level output	$V_I = V_{T+}$ or V_{T-}							
	voltage	I _O = 100 μA; V _{CC} = 1.65 V to 5.5 V		-	-	0.1	-	0.1	V
		$I_O = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$		-	-	0.45	-	0.70	V
		I_{O} = 8 mA; V_{CC} = 2.3 V		-	-	0.3	-	0.45	V
		$I_O = 12 \text{ mA}; V_{CC} = 2.7 \text{ V}$		-	-	0.4	-	0.60	V
		$I_O = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$		-	-	0.55	-	0.80	V
		I_{O} = 32 mA; V_{CC} = 4.5 V		-	-	0.55	-	0.80	V
V _{OH}	HIGH-level	$V_I = V_{T+}$ 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_{O} = -4 mA; V_{CC} = 1.65 V		1.2	-	-	0.95	-	V
		$I_O = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$		1.9	-	-	1.7	-	V
		$I_O = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$		2.2	-	-	1.9	-	V
		$I_O = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$		2.3	-	-	2.0	-	V
		I_{O} = -32 mA; V_{CC} = 4.5 V		3.8	-	-	3.4	-	V
I _I	input leakage current	V _I = 5.5 V or GND; V _{CC} = 0 V to 5.5 V	[2]	-	±0.1	±1	-	±1	μΑ
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 5.5 \text{ V}$; $V_{CC} = 0 \text{ V}$		-	±0.1	±2	-	±2	μA
I _{CC}	supply current	V _I = 5.5 V or GND; I _O = 0 A; V _{CC} = 1.65 V to 5.5 V	[2]	-	0.1	4	-	4	μA
Δl _{CC}	additional supply current	V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 2.3 V to 5.5 V	[2]	-	5	500	-	500	μA
Cı	input capacitance			-	3.5	-	-	-	pF

^[1] All typical values are measured at T_{amb} = 25 °C.

11.1. Transfer characteristics

Table 8. Transfer characteristics

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions -40 °C to +85 °C		-40 °C to	Unit			
			Min	Typ [1]	Max	Min	Max	
V_{T+}	positive-going	see Fig. 7 and Fig. 8						
	threshold voltage	V _{CC} = 1.8 V	0.70	1.10	1.50	0.70	1.70	V
		V _{CC} = 2.3 V	1.00	1.40	1.80	1.00	2.00	V
		V _{CC} = 3.0 V	1.30	1.76	2.20	1.30	2.40	V
		V _{CC} = 4.5 V	1.90	2.47	3.10	1.90	3.30	V
		V _{CC} = 5.5 V	2.20	2.91	3.60	2.20	3.80	V

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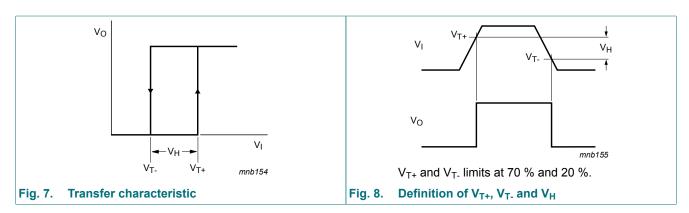
^[2] These typical values are measured at V_{CC} = 3.3 V.

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Symbol	Parameter	Conditions	-40	0 °C to +85	°C	-40 °C to	Unit	
			Min	Typ [1]	Max	Min	Max	
V _{T-}	negative-going	see Fig. 7 and Fig. 8						
	threshold voltage	V _{CC} = 1.8 V	0.25	0.61	0.90	0.25	1.10	V
		V _{CC} = 2.3 V	0.40	0.80	1.15	0.40	1.35	V
		V _{CC} = 3.0 V	0.60	1.04	1.50	0.60	1.70	V
		V _{CC} = 4.5 V	1.00	1.55	2.00	1.00	2.20	V
		V _{CC} = 5.5 V	1.20	1.86	2.30	1.20	2.50	V
V _H	hysteresis voltage	(V _{T+} - V _{T-}); see <u>Fig. 7</u> , <u>Fig. 8</u> and <u>Fig. 9</u>						
		V _{CC} = 1.8 V	0.15	0.49	1.00	0.15	1.20	V
		V _{CC} = 2.3 V	0.25	0.60	1.10	0.25	1.30	V
		V _{CC} = 3.0 V	0.40	0.73	1.20	0.40	1.40	V
		V _{CC} = 4.5 V	0.60	0.92	1.50	0.60	1.70	V
		V _{CC} = 5.5 V	0.70	1.02	1.70	0.70	1.90	V

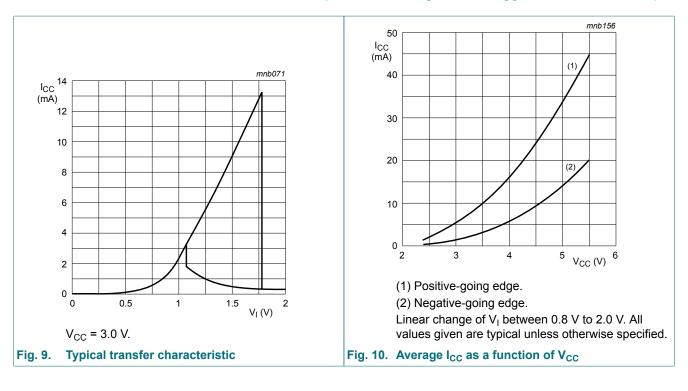
^[1] All typical values are measured at T_{amb} = 25 °C.

11.2. Waveforms transfer characteristics



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Triple non-inverting Schmitt trigger with 5 V tolerant input



12. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 12.

Symbol	Parameter	Conditions	-40	-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
t _{pd}	propagation	nA to nY; see Fig. 11 [2]						
	delay	V _{CC} = 1.65 V to 1.95 V	1.5	5.6	10.5	1.5	13.1	ns
		V _{CC} = 2.3 V to 2.7 V	1.0	3.7	6.5	1.0	8.5	ns
		V _{CC} = 2.7 V	1.0	3.8	6.5	1.0	8.5	ns
		V _{CC} = 3.0 V to 3.6 V	1.0	3.6	5.7	1.0	7.1	ns
		V _{CC} = 4.5 V to 5.5 V	1.0	2.7	4.3	1.0	5.4	ns
C _{PD}	power dissipation capacitance	per buffer; $V_{CC} = 3.3 \text{ V}$; [3] $V_I = \text{GND to } V_{CC}$	-	16.3	-	-	-	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).

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

 f_i = input frequency in MHz;

 f_0 = output frequency in MHz;

C_L = output load capacitance in pF;

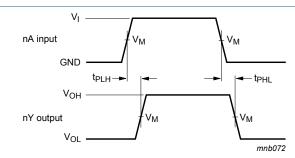
V_{CC} = supply voltage in V;

N = number of inputs switching;

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

Triple non-inverting Schmitt trigger with 5 V tolerant input

12.1. Waveforms and test circuit



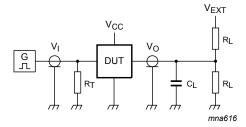
Measurement points are given in Table 10.

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

Fig. 11. The input (nA) to output (nY) propagation delays and the output transition times

Table 10. Measurement points

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



Test data is given in Table 11.

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 output impedance Z_{o} of the pulse generator.

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

Fig. 12. Test circuit for measuring switching times

Table 11. Test data

Supply voltage	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	2 × V _{CC}
2.3 V to 2.7 V	V _{CC}	≤ 2.0 ns	30 pF	500 Ω	open	GND	2 × V _{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	2 × V _{CC}

Triple non-inverting Schmitt trigger with 5 V tolerant input

13. Package outline

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

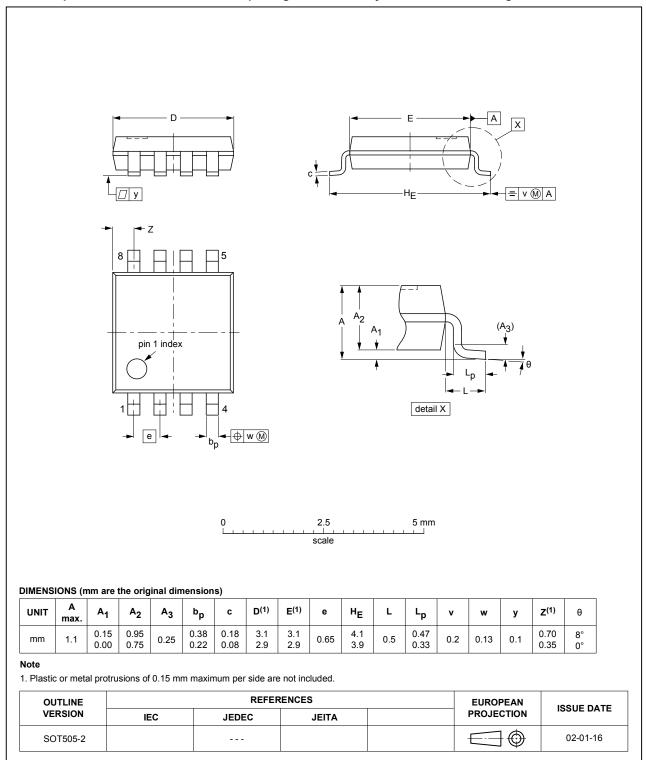


Fig. 13. Package outline SOT505-2 (TSSOP8)

Triple non-inverting Schmitt trigger with 5 V tolerant input

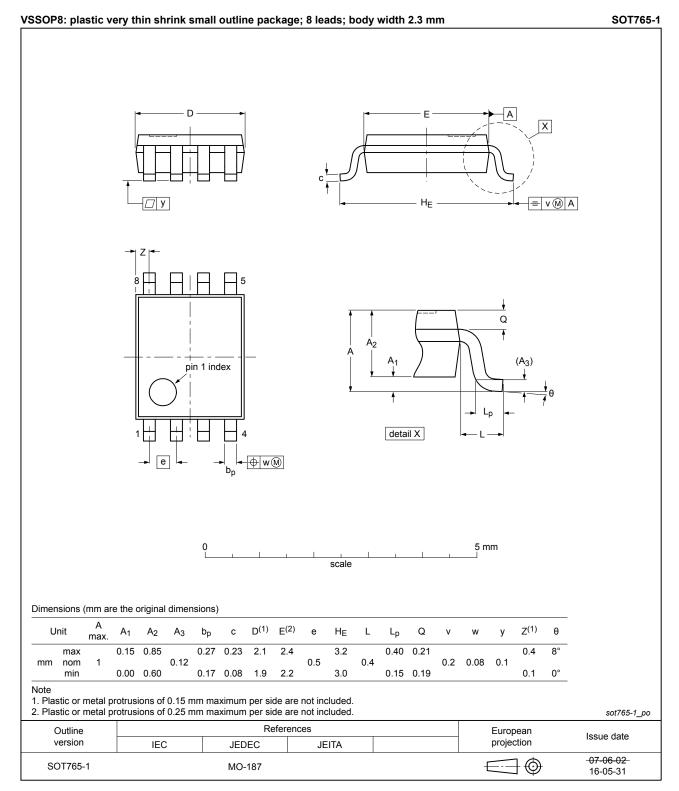


Fig. 14. Package outline SOT765-1 (VSSOP8)

Product data sheet

Triple non-inverting Schmitt trigger with 5 V tolerant input

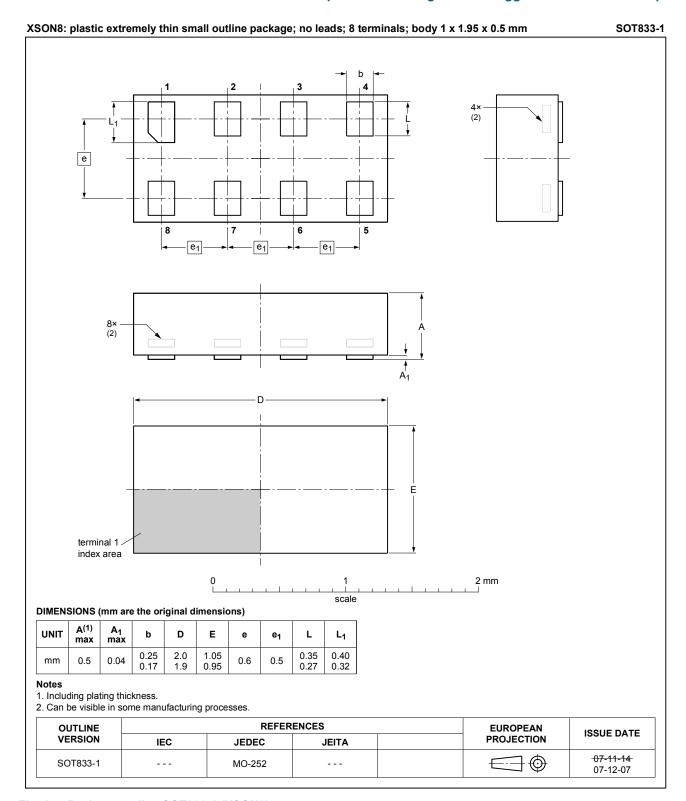


Fig. 15. Package outline SOT833-1 (XSON8)

Triple non-inverting Schmitt trigger with 5 V tolerant input

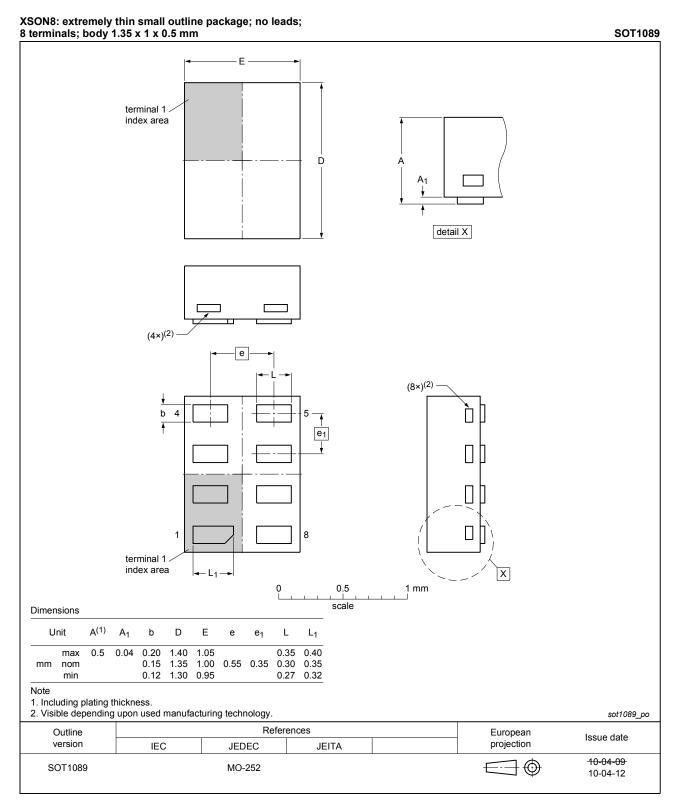


Fig. 16. Package outline SOT1089 (XSON8)

Triple non-inverting Schmitt trigger with 5 V tolerant input

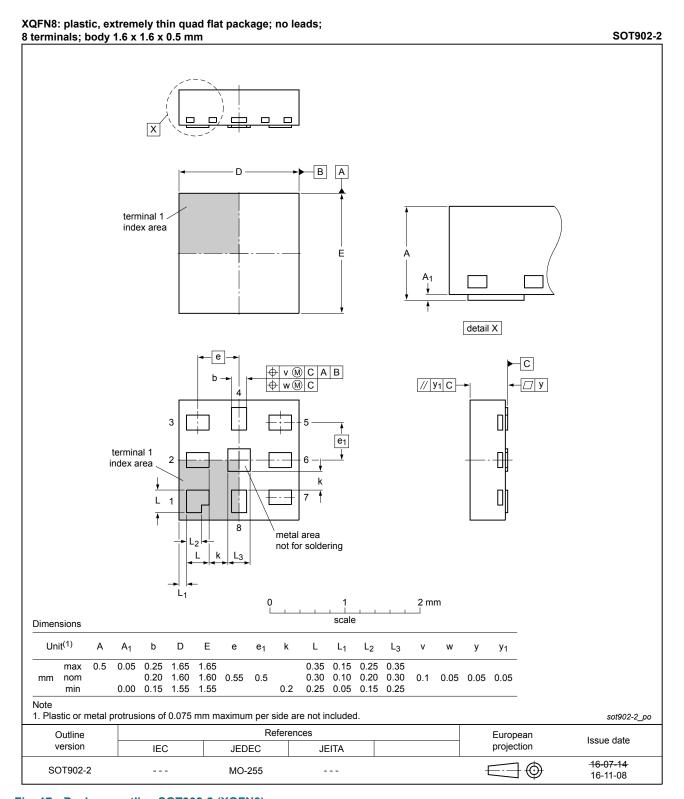


Fig. 17. Package outline SOT902-2 (XQFN8)

Product data sheet

Triple non-inverting Schmitt trigger with 5 V tolerant input

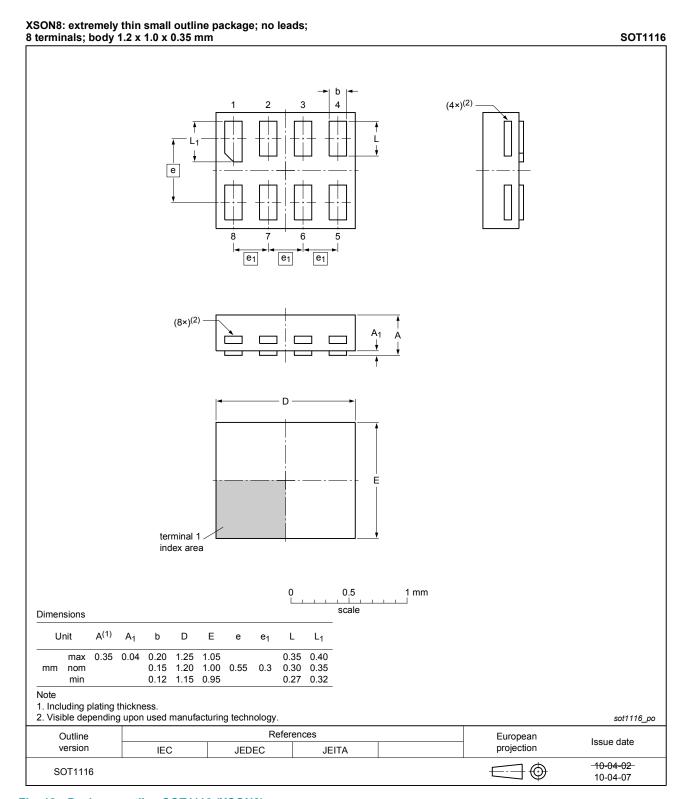


Fig. 18. Package outline SOT1116 (XSON8)

Product data sheet

Triple non-inverting Schmitt trigger with 5 V tolerant input

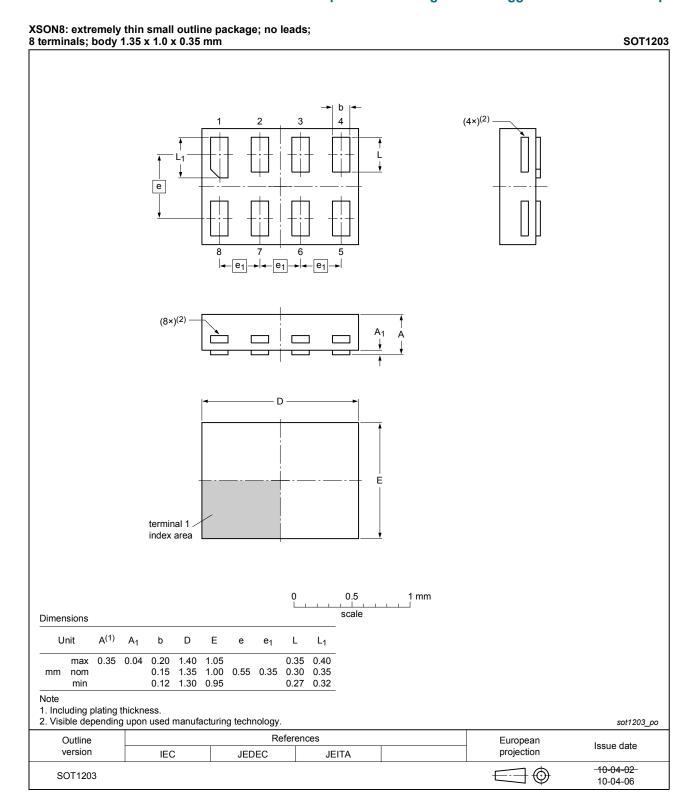


Fig. 19. Package outline SOT1203 (XSON8)

Product data sheet

Triple non-inverting Schmitt trigger with 5 V tolerant input

14. Abbreviations

Table 12. Abbreviations

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

15. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC3G17 v.13	20181127	Product data sheet	-	74LVC3G17 v.12	
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Type numbers 74LVC3G17GD (SOT996-2) removed. 				
74LVC3G17 v.12	20161215	Product data sheet	-	74LVC3G17 v.11	
Modifications:	<u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC3G17 v.11	20130409	Product data sheet	-	74LVC3G17 v.10	
Modifications:	For type number 74LVC3G17GD XSON8U has changed to XSON8.				
74LVC3G17 v.10	20120706	Product data sheet	-	74LVC3G17 v.9	
Modifications:	For type number 74LVC3G17GM the SOT code has changed to SOT902-2.				
74LVC3G17 v.9	20111123	Product data sheet	-	74LVC3G17 v.8	
Modifications:	Legal pages updated.				
74LVC3G17 v.8	20110921	Product data sheet	-	74LVC3G17 v.7	
74LVC3G17 v.7	20101104	Product data sheet	-	74LVC3G17 v.6	
74LVC3G17 v.6	20080606	Product data sheet	-	74LVC3G17 v.5	
74LVC3G17 v.5	20080313	Product data sheet	-	74LVC3G17 v.4	
74LVC3G17 v.4	20070521	Product data sheet	-	74LVC3G17 v.3	
74LVC3G17 v.3	20050131	Product data sheet	-	74LVC3G17 v.2	
74LVC3G17 v.2	20041103	Product specification	-	74LVC3G17 v.1	
74LVC3G17 v.1	20040624	Product specification	-	-	

Triple non-inverting Schmitt trigger with 5 V tolerant input

16. 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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Triple non-inverting Schmitt trigger with 5 V tolerant input

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