

# 74LVC3G17

Triple non-inverting Schmitt trigger with 5 V tolerant input

Rev. 05 — 13 March 2008

Product data sheet

## 1. General description

The 74LVC3G17 provides three non-inverting buffers with Schmitt trigger action. 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

- 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-A114E exceeds 2000 V
  - ◆ MM JESD22-A115-A exceeds 200 V
- $\pm 24$  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

## 4. Ordering information

**Table 1. Ordering information**

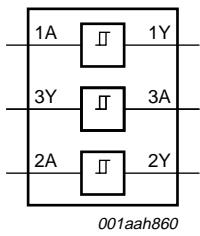
Type number	Package	Temperature range	Name	Description	Version
74LVC3G17DP	–40 °C to +125 °C	TSSOP8		plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2
74LVC3G17DC	–40 °C to +125 °C	VSSOP8		plastic very thin shrink small outline package; 8 leads; body width 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
74LVC3G17GM	–40 °C to +125 °C	XQFN8U		plastic extremely thin quad flat package; no leads; 8 terminals; UTLP based; body 1.6 × 1.6 × 0.5 mm	SOT902-1

## 5. Marking

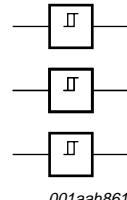
**Table 2. Marking codes**

Type number	Marking code
74LVC3G17DP	V17
74LVC3G17DC	V17
74LVC3G17GT	V17
74LVC3G17GM	V17

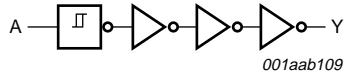
## 6. Functional diagram



**Fig 1. Logic symbol**



**Fig 2. IEC logic symbol**



**Fig 3. Logic diagram (one gate)**

## 7. Pinning information

### 7.1 Pinning

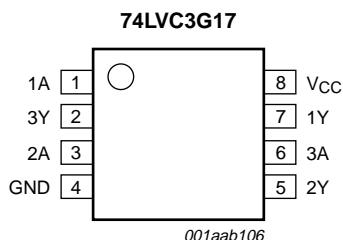


Fig 4. Pin configuration SOT505-2 (TSSOP8) and SOT765-1 (VSSOP8)

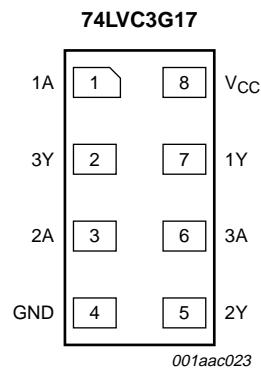


Fig 5. Pin configuration SOT833-1 (XSON8)

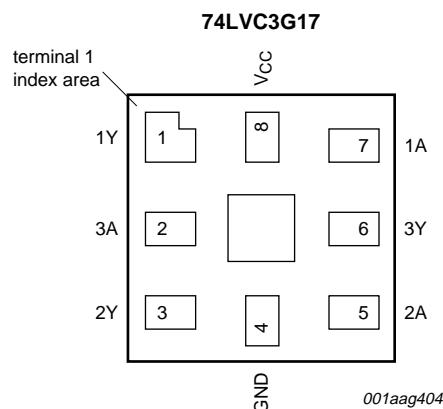


Fig 6. Pin configuration SOT902-1 (XQFN8U)

## 7.2 Pin description

**Table 3.** Pin description

Symbol	Pin	Description	
		SOT505-2, SOT765-1 and SOT833-1	SOT902-1
1A	1	7	data input 1
3Y	2	6	data output 3
2A	3	5	data input 2
GND	4	4	ground (0 V)
2Y	5	3	data output 2
3A	6	2	data input 3
1Y	7	1	data output 1
V <sub>CC</sub>	8	8	supply voltage

## 8. Functional description

**Table 4.** Function table<sup>[1]</sup>

Input	Output
nA	nY
L	L
H	H

[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 <sub>CC</sub>	supply voltage		-0.5	+6.5	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
V <sub>I</sub>	input voltage		<sup>[1]</sup> -0.5	+6.5	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> > V <sub>CC</sub> or V <sub>O</sub> < 0 V	-	±50	mA
V <sub>O</sub>	output voltage	Active mode	<sup>[1]</sup> -0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode	<sup>[1][2]</sup> -0.5	+6.5	V
I <sub>O</sub>	output current	V <sub>O</sub> = 0 V to V <sub>CC</sub>	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C	<sup>[3]</sup> -	250	mW

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

[2] When V<sub>CC</sub> = 0 V (Power-down mode), the output voltage can be 5.5 V in normal operation.

[3] For TSSOP8 and VSSOP8 packages: above 110 °C the value of P<sub>tot</sub> derates linearly with 8.0 mW/K.

For XSON8 and XQFN8U packages: above 45 °C the value of P<sub>tot</sub> derates linearly with 2.4 mW/K.

## 10. Recommended operating conditions

**Table 6. Operating conditions**

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	5.5	V
V <sub>I</sub>	input voltage		0	5.5	V
V <sub>O</sub>	output voltage		0	V <sub>CC</sub>	V
T <sub>amb</sub>	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	Min	Typ <sup>[1]</sup>	Max	Unit
<b>T<sub>amb</sub> = -40 °C to +85 °C</b>						
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> I <sub>O</sub> = 100 µA; V <sub>CC</sub> = 1.65 V to 5.5 V I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.1	V
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> I <sub>O</sub> = -100 µA; V <sub>CC</sub> = 1.65 V to 5.5 V I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V	V <sub>CC</sub> - 0.1	-	-	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	[2]	-	±0.1	±5 µA
I <sub>OFF</sub>	power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 5.5 V; V <sub>CC</sub> = 0 V	-	±0.1	±10 µA	
I <sub>CC</sub>	supply current	V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.65 V to 5.5 V	-	0.1	10	µA
ΔI <sub>CC</sub>	additional supply current	V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 2.3 V to 5.5 V	[2]	-	5	500 µA
C <sub>I</sub>	input capacitance		-	3.5	-	pF
<b>T<sub>amb</sub> = -40 °C to +125 °C</b>						
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> I <sub>O</sub> = 100 µA; V <sub>CC</sub> = 1.65 V to 5.5 V I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.1	V
			-	-	0.70	V
			-	-	0.45	V
			-	-	0.60	V
			-	-	0.80	V
			-	-	0.80	V

**Table 7. Static characteristics ...continued**

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

Symbol	Parameter	Conditions	Min	Typ <sup>[1]</sup>	Max	Unit
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>				
		I <sub>O</sub> = -100 µA; V <sub>CC</sub> = 1.65 V to 5.5 V	V <sub>CC</sub> - 0.1	-	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	0.95	-	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 2.3 V	1.7	-	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V	1.9	-	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.0	-	-	V
		I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V	3.4	-	-	V
I <sub>I</sub>	input leakage current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 0 V to 5.5 V	-	-	±20	µA
I <sub>OFF</sub>	power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 5.5 V; V <sub>CC</sub> = 0 V	-	-	±20	µA
I <sub>CC</sub>	supply current	V <sub>I</sub> = 5.5 V or GND; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 1.65 V to 5.5 V	-	-	40	µA
ΔI <sub>CC</sub>	additional supply current	V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 2.3 V to 5.5 V	-	-	5	mA

[1] All typical values are measured at T<sub>amb</sub> = 25 °C.[2] These typical values are measured at V<sub>CC</sub> = 3.3 V.

## 12. Dynamic characteristics

**Table 8. Dynamic characteristics**Voltages are referenced to GND (ground = 0 V); for test circuit see [Figure 8](#).

Symbol	Parameter	Conditions	-40 °C to +85 °C			-40 °C to +125 °C		Unit
			Min	Typ <sup>[1]</sup>	Max	Min	Max	
t <sub>pd</sub>	propagation delay	nA to nY; see <a href="#">Figure 7</a>	[2]					ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.5	5.6	10.5	1.5	13.1	
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.0	3.7	6.5	1.0	8.5	
		V <sub>CC</sub> = 2.7 V	1.0	3.8	6.5	1.0	8.5	
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.0	3.6	5.7	1.0	7.1	
C <sub>PD</sub>	power dissipation capacitance	per buffer; V <sub>CC</sub> = 3.3 V; V <sub>I</sub> = GND to V <sub>CC</sub>	[3]			16.3	-	pF
			Min	Typ <sup>[1]</sup>	Max	Min	Max	

[1] Typical values are measured at T<sub>amb</sub> = 25 °C and V<sub>CC</sub> = 1.8 V, 2.5 V, 2.7 V, 3.3 V and 5.0 V respectively.[2] t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.[3] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in µW).

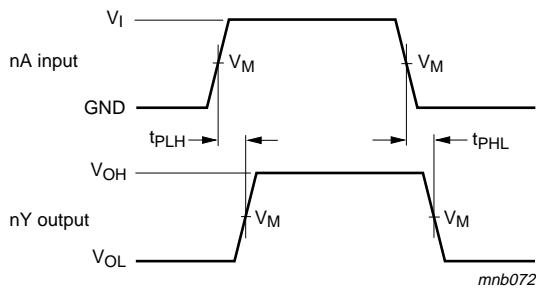
$$P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \sum(C_L \times V_{CC}^2 \times f_o)$$

f<sub>i</sub> = input frequency in MHz;f<sub>o</sub> = output frequency in MHz;C<sub>L</sub> = output load capacitance in pF;V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

## 13. Waveforms



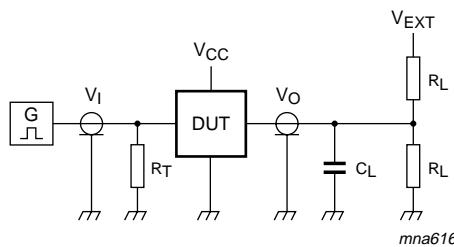
Measurement points are given in [Table 9](#).

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

**Fig 7. The input (nA) to output (nY) propagation delays and the output transition times**

**Table 9. 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	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$



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 output impedance  $Z_o$  of the pulse generator.

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

**Fig 8. Load circuitry for switching times**

**Table 10. Test data**

Supply voltage	Input		Load		$V_{EXT}$		
$V_{CC}$	$V_I$	$t_r, t_f$	$C_L$	$R_L$	$t_{PLH}, t_{PHL}$	$t_{PZH}, t_{PHZ}$	$t_{PZL}, t_{PLZ}$
1.65 V to 1.95 V	$V_{CC}$	$\leq 2.0$ ns	30 pF	1 k $\Omega$	open	GND	$2 \times V_{CC}$
2.3 V to 2.7 V	$V_{CC}$	$\leq 2.0$ ns	30 pF	500 $\Omega$	open	GND	$2 \times V_{CC}$
2.7 V	2.7 V	$\leq 2.5$ ns	50 pF	500 $\Omega$	open	GND	6 V
3.0 V to 3.6 V	2.7 V	$\leq 2.5$ ns	50 pF	500 $\Omega$	open	GND	6 V
4.5 V to 5.5 V	$V_{CC}$	$\leq 2.5$ ns	50 pF	500 $\Omega$	open	GND	$2 \times V_{CC}$

## 14. Transfer characteristics

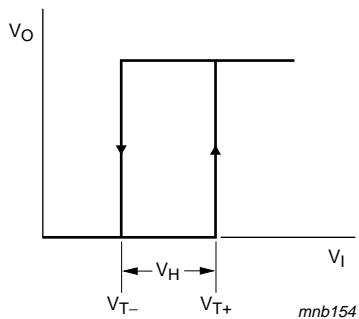
**Table 11. Transfer characteristics**

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

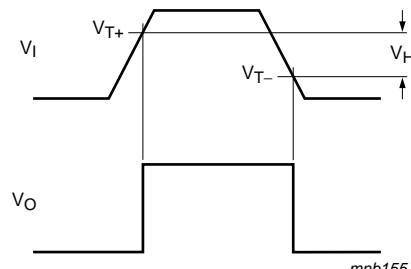
Symbol	Parameter	Conditions	−40 °C to +85 °C			−40 °C to +125 °C		Unit
			Min	Typ <sup>[1]</sup>	Max	Min	Max	
$V_{T+}$	positive-going threshold voltage see <a href="#">Figure 9</a> and <a href="#">Figure 10</a>	$V_{CC} = 1.8 \text{ V}$	0.70	1.10	1.50	0.70	1.70	V
		$V_{CC} = 2.3 \text{ V}$	1.00	1.40	1.80	1.00	2.00	V
		$V_{CC} = 3.0 \text{ V}$	1.30	1.76	2.20	1.30	2.40	V
		$V_{CC} = 4.5 \text{ V}$	1.90	2.47	3.10	1.90	3.30	V
		$V_{CC} = 5.5 \text{ V}$	2.20	2.91	3.60	2.20	3.80	V
$V_{T-}$	negative-going threshold voltage see <a href="#">Figure 9</a> and <a href="#">Figure 10</a>	$V_{CC} = 1.8 \text{ V}$	0.25	0.61	0.90	0.25	1.10	V
		$V_{CC} = 2.3 \text{ V}$	0.40	0.80	1.15	0.40	1.35	V
		$V_{CC} = 3.0 \text{ V}$	0.60	1.04	1.50	0.60	1.70	V
		$V_{CC} = 4.5 \text{ V}$	1.00	1.55	2.00	1.00	2.20	V
		$V_{CC} = 5.5 \text{ V}$	1.20	1.86	2.30	1.20	2.50	V
$V_H$	hysteresis voltage $(V_{T+} - V_{T-})$ ; see <a href="#">Figure 9</a> , <a href="#">Figure 10</a> and <a href="#">Figure 11</a>	$V_{CC} = 1.8 \text{ V}$	0.15	0.49	1.00	0.15	1.20	V
		$V_{CC} = 2.3 \text{ V}$	0.25	0.60	1.10	0.25	1.30	V
		$V_{CC} = 3.0 \text{ V}$	0.40	0.73	1.20	0.40	1.40	V
		$V_{CC} = 4.5 \text{ V}$	0.60	0.92	1.50	0.60	1.70	V
		$V_{CC} = 5.5 \text{ V}$	0.70	1.02	1.70	0.70	1.90	V

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

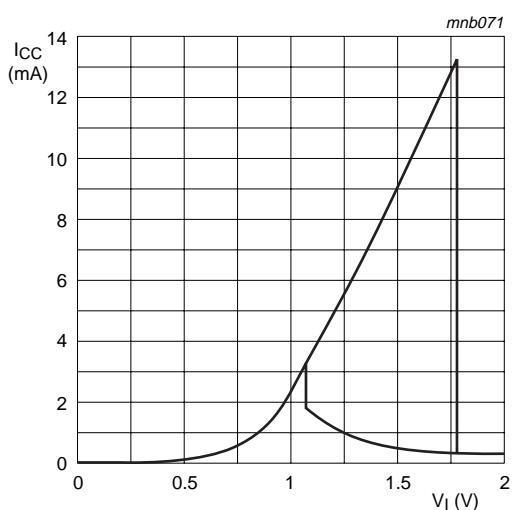
## 15. Waveforms transfer characteristics



**Fig 9. Transfer characteristic**

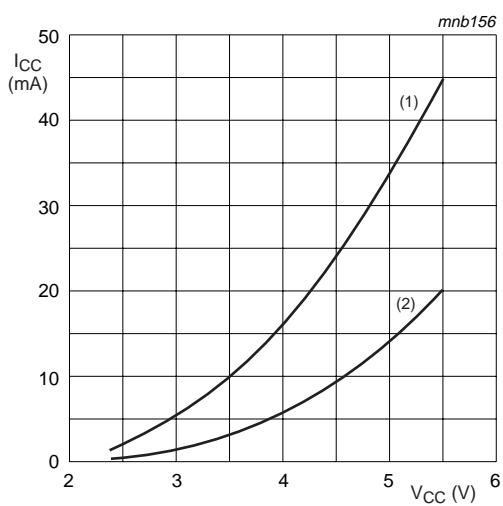


**Fig 10. Definition of  $V_{T+}$ ,  $V_{T-}$  and  $V_H$**



$V_{CC} = 3.0$  V.

**Fig 11. Typical transfer characteristic**



(1) Positive-going edge.

(2) Negative-going edge.

Linear change of  $V_l$  between 0.8 V to 2.0 V. All values given are typical unless otherwise specified.

**Fig 12. Average  $I_{CC}$  as a function of  $V_{CC}$**

## 16. Package outline

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

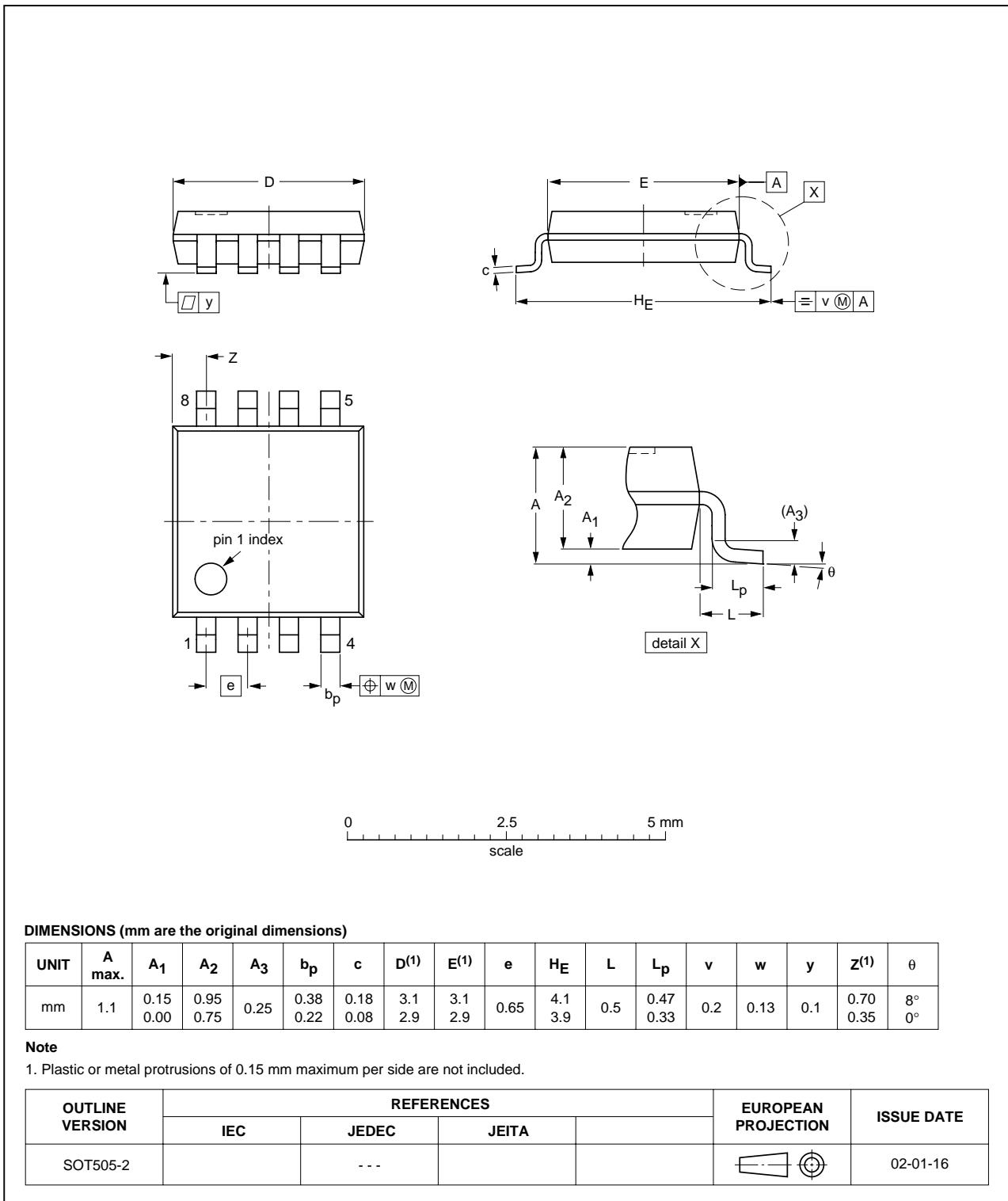


Fig 13. Package outline SOT505-2 (TSSOP8)

VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1

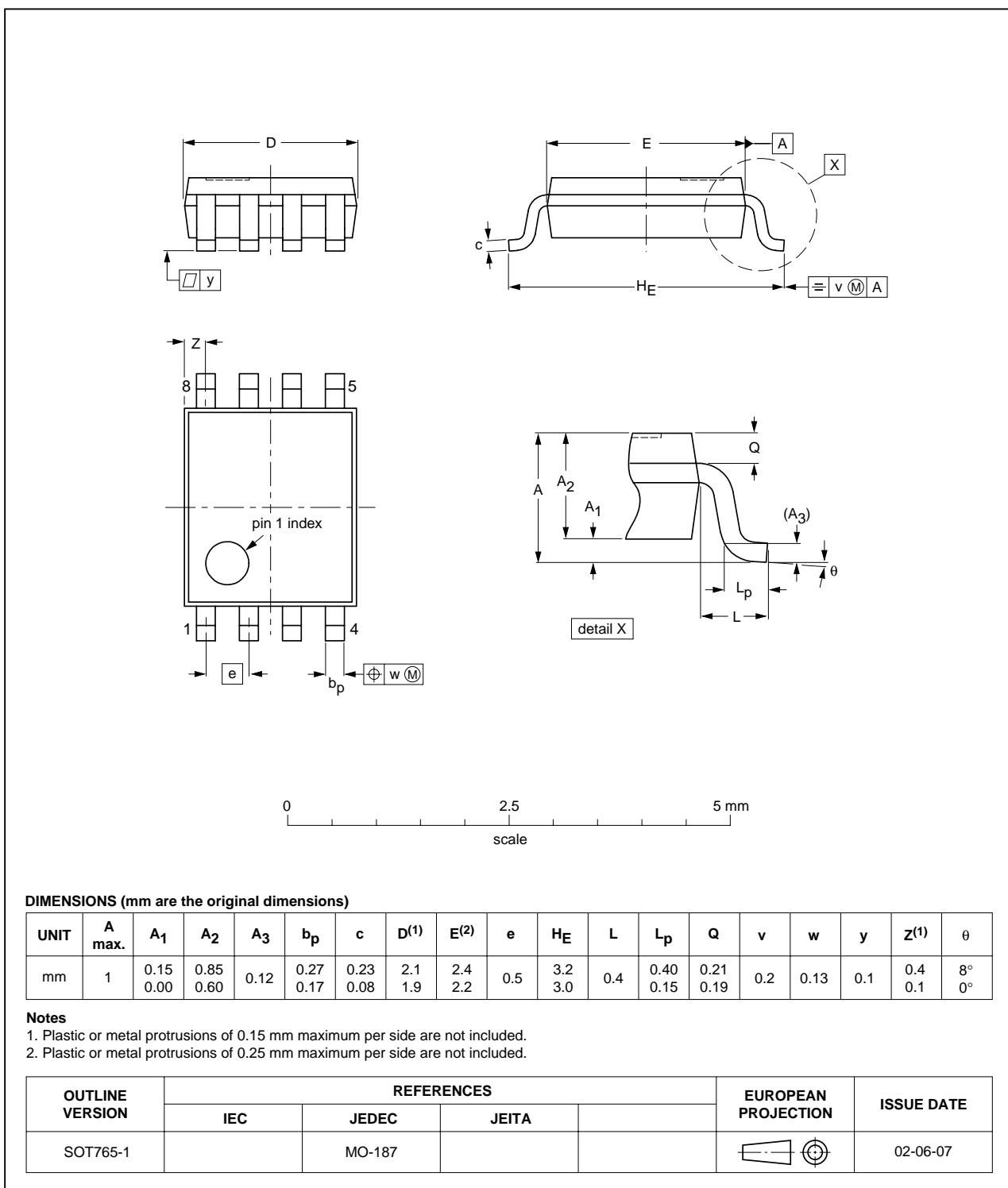


Fig 14. Package outline SOT765-1 (VSSOP8)

XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm

SOT833-1

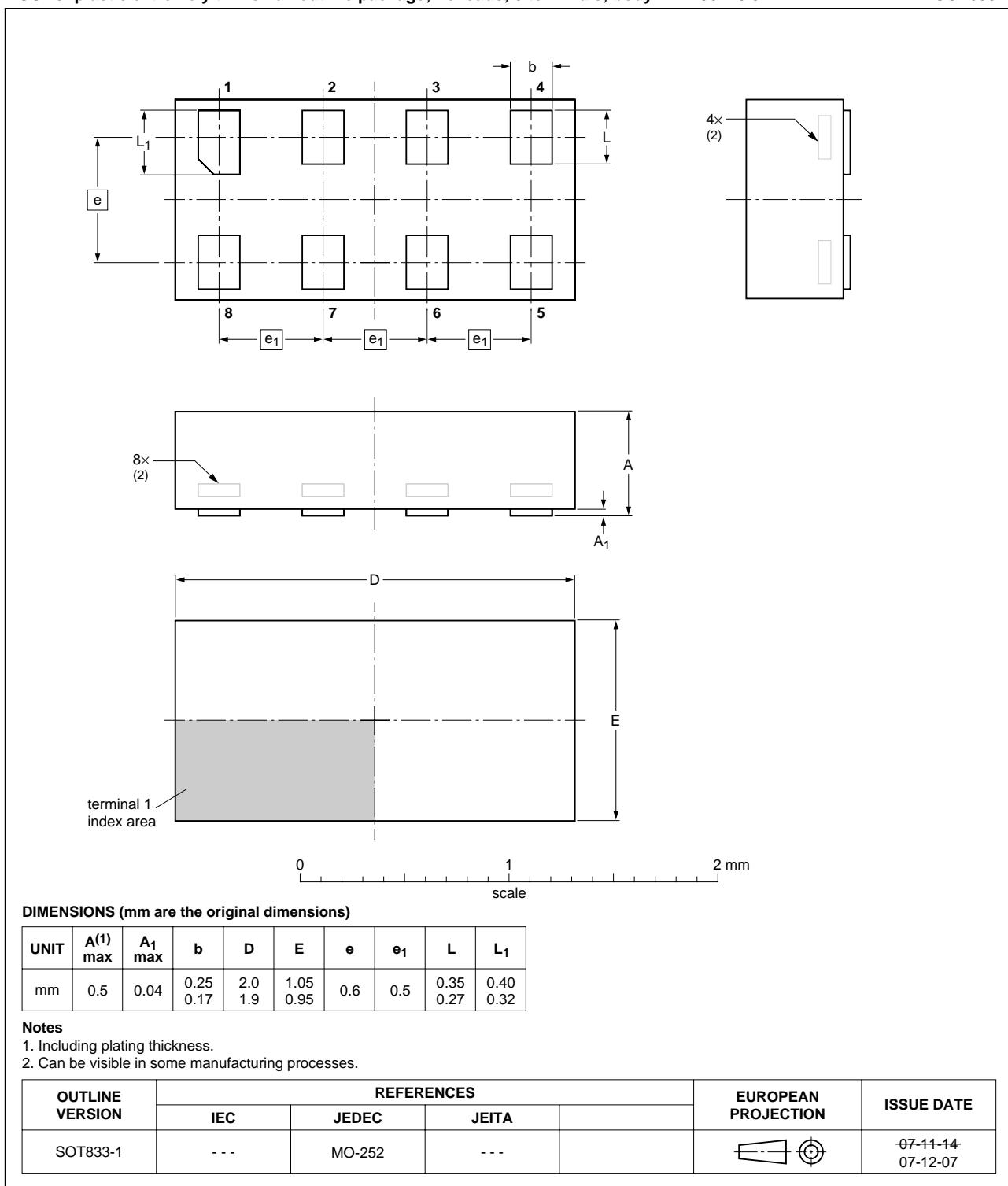


Fig 15. Package outline SOT833-1 (XSON8)

XQFN8U: plastic extremely thin quad flat package; no leads;  
8 terminals; UTLP based; body 1.6 x 1.6 x 0.5 mm

SOT902-1

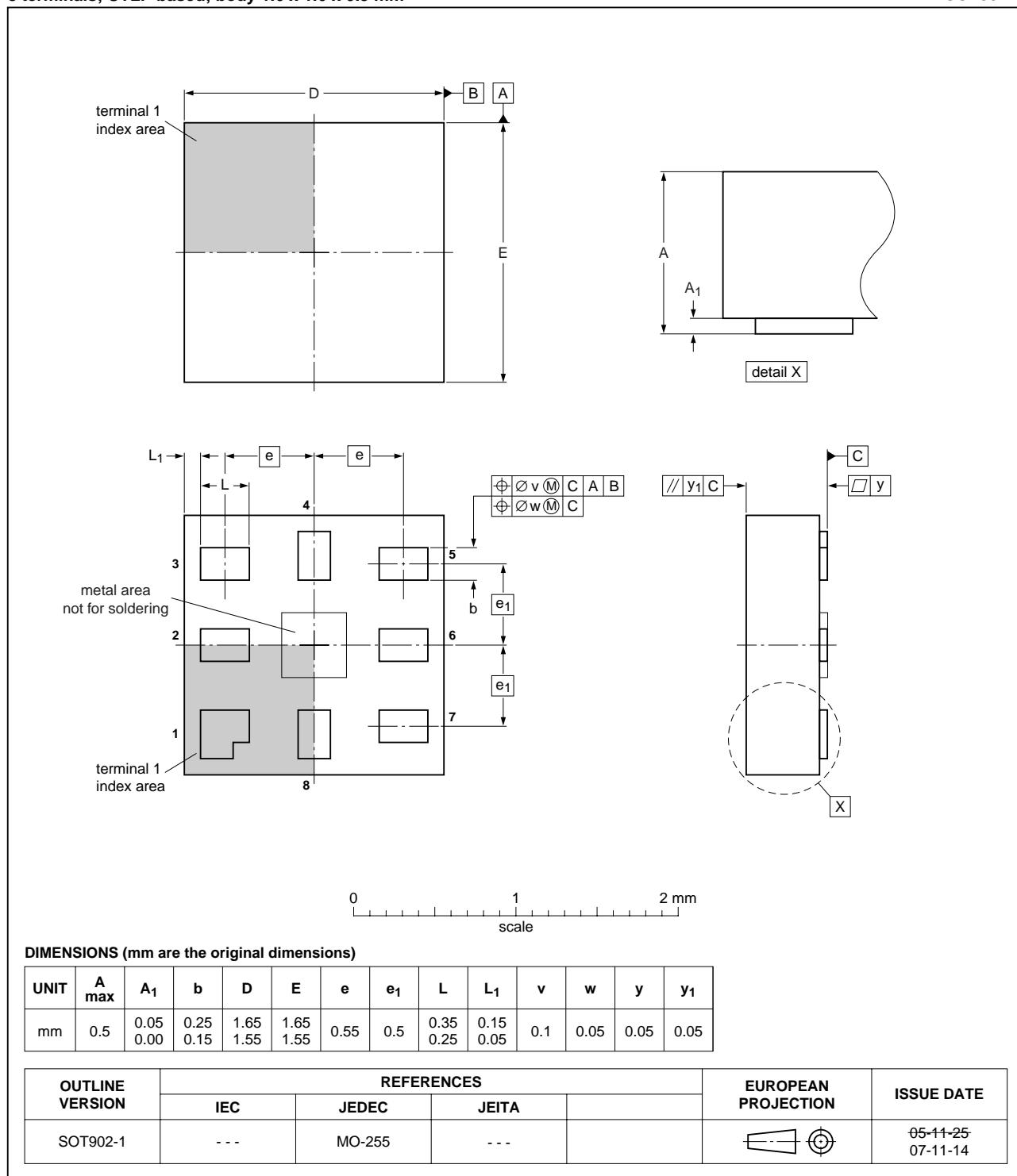


Fig 16. Package outline SOT902-1 (XQFN8U)

## 17. Abbreviations

**Table 12. 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

## 18. Revision history

**Table 13. Revision history**

Document ID	Release date	Data sheet status	Change notice	Supersedes
74LVC3G17_5	20080313	Product data sheet	-	74LVC3G17_4
Modifications:	<ul style="list-style-type: none"><li>• <a href="#">Figure 1</a> and <a href="#">Figure 2</a>: pin numbers removed from logic symbols</li><li>• <a href="#">Figure 16</a>: package outline drawing updated to latest version</li></ul>			
74LVC3G17_4	20070521	Product data sheet	-	74LVC3G17_3
74LVC3G17_3	20050131	Product data sheet	-	74LVC3G17_2
74LVC3G17_2	20041103	Product specification	-	74LVC3G17_1
74LVC3G17_1	20040624	Product specification	-	-

## 19. Legal information

### 19.1 Data sheet status

Document status <sup>[1][2]</sup>	Product status <sup>[3]</sup>	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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