# 74LVC3G34

## **Triple buffer**

Rev. 13 — 26 October 2018

**Product data sheet** 

### 1. General description

The 74LVC3G34 provides three buffers.

The inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of the 74LVC3G34 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
- 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<sub>CC</sub> = 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



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## 3. Ordering information

**Table 1. Ordering information** 

Type number	Package	Package							
	Temperature range	Name	Description	Version					
74LVC3G34DP	-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					
74LVC3G34DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1					
74LVC3G34GT	-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					
74LVC3G34GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089					
74LVC3G34GM	-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					
74LVC3G34GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116					
74LVC3G34GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203					

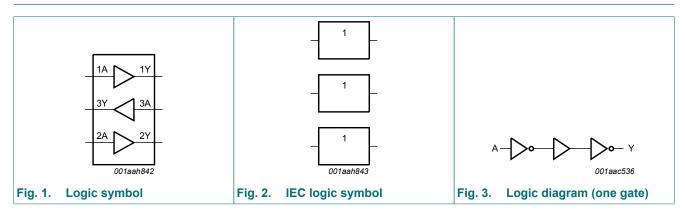
## 4. Marking

Table 2. Marking codes

Type number	Marking code [1]
74LVC3G34DP	V34
74LVC3G34DC	Y34
74LVC3G34GT	Y34
74LVC3G34GF	YA
74LVC3G34GM	Y34
74LVC3G34GN	YA
74LVC3G34GS	YA

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

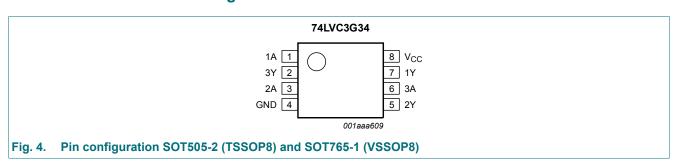
## 5. Functional diagram

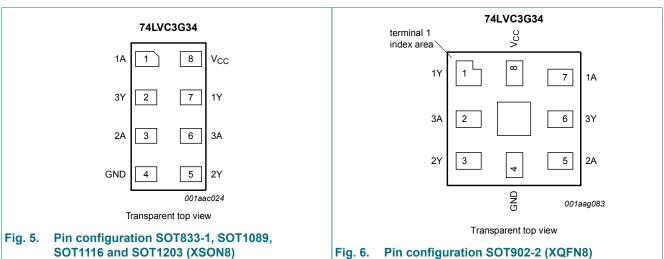


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## 6. Pinning information

### 6.1. Pinning





### 6.2. 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	
1Y, 2Y, 3Y	7, 5, 2	1, 3, 6	data output	
GND	4	4	ground (0 V)	
V <sub>CC</sub>	8	8	supply voltage	

## 7. Functional description

### **Table 4. Function table**

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

Input nA	Output nY
L	L
Н	Н

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## 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 <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
VI	input voltage	[1]	-0.5	+6.5	V
lok	output clamping current	$V_O > V_{CC}$ or $V_O < 0 V$	-	±50	mA
Vo	output voltage	Active mode [1]	-0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode; V <sub>CC</sub> = 0 V [1]	-0.5	+6.5	V
Io	output current	$V_O = 0 V \text{ to } V_{CC}$	-	±50	mA
I <sub>CC</sub>	supply current		-	100	mA
I <sub>GND</sub>	ground current		-100	-	mA
P <sub>tot</sub>	total power dissipation	$T_{amb} = -40  ^{\circ}\text{C to } +125  ^{\circ}\text{C}$ [2]	-	250	mW
T <sub>stg</sub>	storage temperature		-65	+150	°C

## 9. Recommended operating conditions

#### **Table 6. Operating conditions**

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		1.65	5.5	V
VI	input voltage		0	5.5	V
Vo	output voltage	Active mode	0	V <sub>CC</sub>	V
		Power-down mode; V <sub>CC</sub> = 0 V	0	5.5	V
T <sub>amb</sub>	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 1.65 V to 2.7 V	-	20	ns/V
		V <sub>CC</sub> = 2.7 V to 5.5 V	-	10	ns/V

The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed. For TSSOP8 package: above 55  $^{\circ}$ C the value of P<sub>tot</sub> derates linearly with 2.5 mW/K. For VSSOP8 package: above 110  $^{\circ}\text{C}$  the value of Pttot derates linearly with 8 mW/K. For XSON8, XQFN8 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

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### 10. Static characteristics

**Table 7. Static characteristics** 

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

Symbol	Parameter	Conditions	T <sub>amb</sub> = -40 °C to +85 °C			T <sub>amb</sub> = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max			
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65V <sub>CC</sub>	-	-	0.65V <sub>CC</sub>	-	V
	voltage	V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	-	-	1.7	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.7V <sub>CC</sub>	-	-	0.7V <sub>CC</sub>	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35V <sub>CC</sub>	-	0.35V <sub>CC</sub>	V
	voltage	V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	0.3V <sub>CC</sub>	-	0.3V <sub>CC</sub>	V
V <sub>OH</sub>	HIGH-level output	$V_I = V_{IH}$ or $V_{IL}$						
	voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	V <sub>CC</sub> - 0.1	-	-	V <sub>CC</sub> - 0.1	-	V
		I <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	0.95	-	V
		$I_{O}$ = -8 mA; $V_{CC}$ = 2.3 V	1.9	-	-	1.7	-	V
		I <sub>O</sub> = -12 mA; V <sub>CC</sub> = 2.7 V	2.2	-	-	1.9	-	V
		I <sub>O</sub> = -24 mA; V <sub>CC</sub> = 3.0 V	2.3	-	-	2.0	-	V
	I <sub>O</sub> = -32 mA; V <sub>CC</sub> = 4.5 V	3.8	-	-	3.4	-	V	
V <sub>OL</sub>	LOW-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
	voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 1.65 V to 5.5 V	-	-	0.1	-	0.1	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	-	0.7	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.3	-	0.45	V
		I <sub>O</sub> = 12 mA; V <sub>CC</sub> = 2.7 V	-	-	0.4	-	0.6	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.8	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.55	-	0.8	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	-	±0.1	±1	-	±1	μA
l <sub>OFF</sub>	power-off leakage current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	-	±0.1	±2	-	±2	μΑ
I <sub>CC</sub>	supply current	V <sub>I</sub> = 5.5 V or GND; V <sub>CC</sub> = 1.65 V to 5.5 V; I <sub>O</sub> = 0 A	-	0.1	4	-	4	μΑ
ΔI <sub>CC</sub>	additional supply current	per pin; $V_{CC} = 2.3 \text{ V to } 5.5 \text{ V};$ $V_{I} = V_{CC} - 0.6 \text{ V}; I_{O} = 0 \text{ A}$	-	5	500	-	500	μΑ
Cı	input capacitance	$V_{CC}$ = 3.3 V; $V_I$ = GND to $V_{CC}$	-	2.5	-	-	-	pF

<sup>[1]</sup> All typical values are measured at  $V_{CC}$  = 3.3 V and  $T_{amb}$  = 25  $^{\circ}C.$ 

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## 11. Dynamic characteristics

#### **Table 8. Dynamic characteristics**

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 8.

Symbol	Parameter	Conditions	T <sub>amb</sub> =	<sub>amb</sub> = -40 °C to +85 °C		T <sub>amb</sub> = -40 °C to +125 °C		Unit
			Min	Typ [1]	Max	Min	Max	
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 7 [2]						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3.8	8.6	1.0	10.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	2.4	4.4	0.5	5.5	ns
		V <sub>CC</sub> = 2.7 V	0.5	2.5	5.0	0.5	6.3	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	2.2	4.1	0.5	5.1	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.5	1.9	3.2	0.5	4.0	ns
C <sub>PD</sub>	power dissipation capacitance	$V_1 = GND \text{ to } V_{CC}; V_{CC} = 3.3 \text{ V} $ [3]	-	14	-	-	-	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.

Typical values are measures as a raine
 t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.
 C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).
 P<sub>D</sub> = C<sub>PD</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>i</sub> × N + Σ(C<sub>L</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>o</sub>) where:

 $f_i$  = input frequency in MHz;

f<sub>o</sub> = output frequency in MHz;

C<sub>L</sub> = output load capacitance in pF;

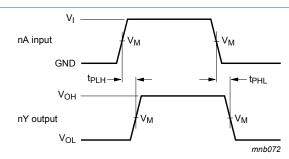
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

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### 11.1. Waveforms and test circuit



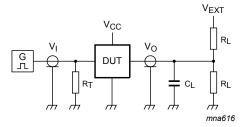
Measurement points are given in Table 9.

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

Fig. 7. The data input (nA) to output (nY) propagation delays

**Table 9. Measurement points** 

Supply voltage	Input	Output	
V <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>	
1.65 V to 1.95 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	
2.3 V to 2.7 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	
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 <sub>CC</sub>	0.5 × V <sub>CC</sub>	



Test data is given in Table 10.

Definitions for test circuit:

R<sub>L</sub> = Load resistance.

C<sub>L</sub> = Load capacitance including jig and probe capacitance.

 $R_T$  = Termination resistance should be equal to the output impedance  $Z_o$  of the pulse generator.

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

Fig. 8. Test circuit for measuring switching times

Table 10. Test data

Supply voltage	Input		Load	Load		
V <sub>CC</sub>	V <sub>I</sub>	$t_r = t_f$	C <sub>L</sub>	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	open	
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 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 <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	open	

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## 12. Package outline

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

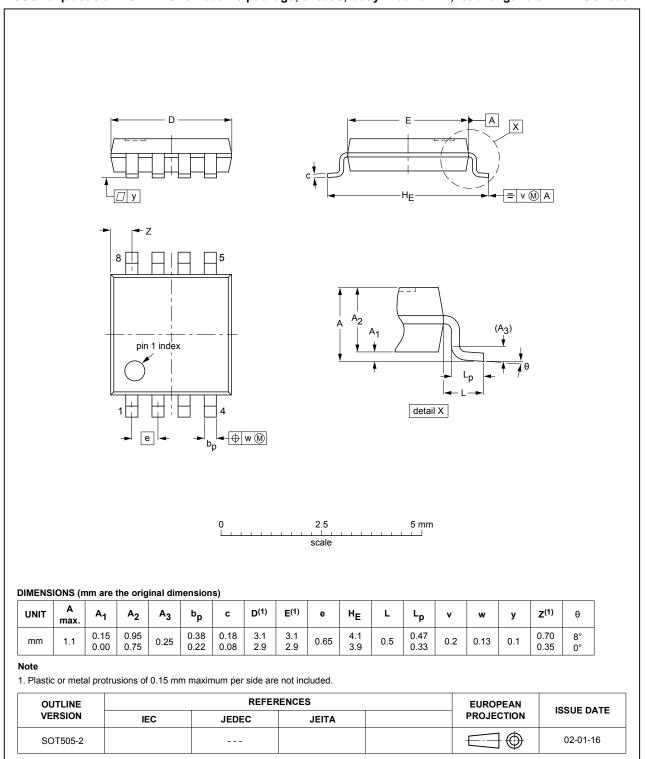


Fig. 9. Package outline SOT505-2 (TSSOP8)

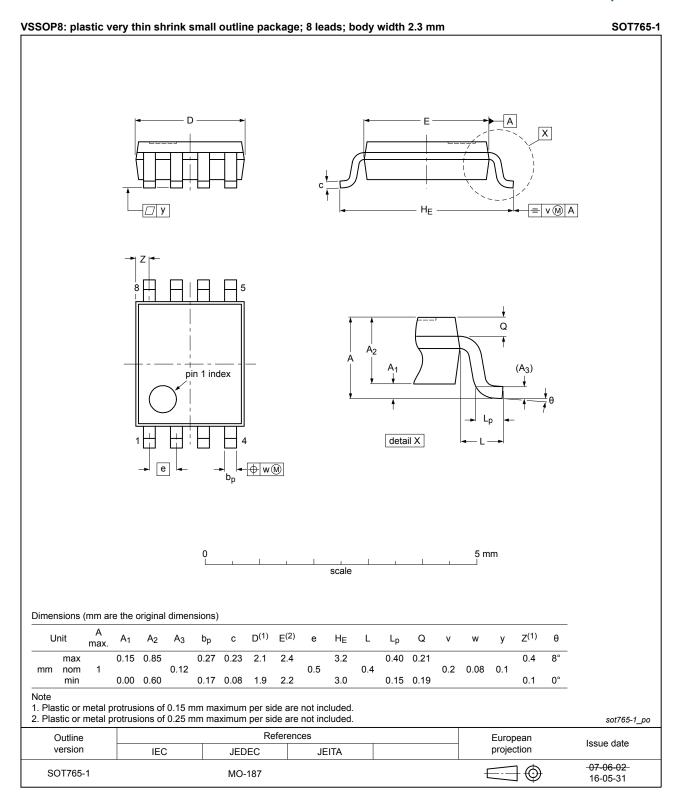


Fig. 10. Package outline SOT765-1 (VSSOP8)

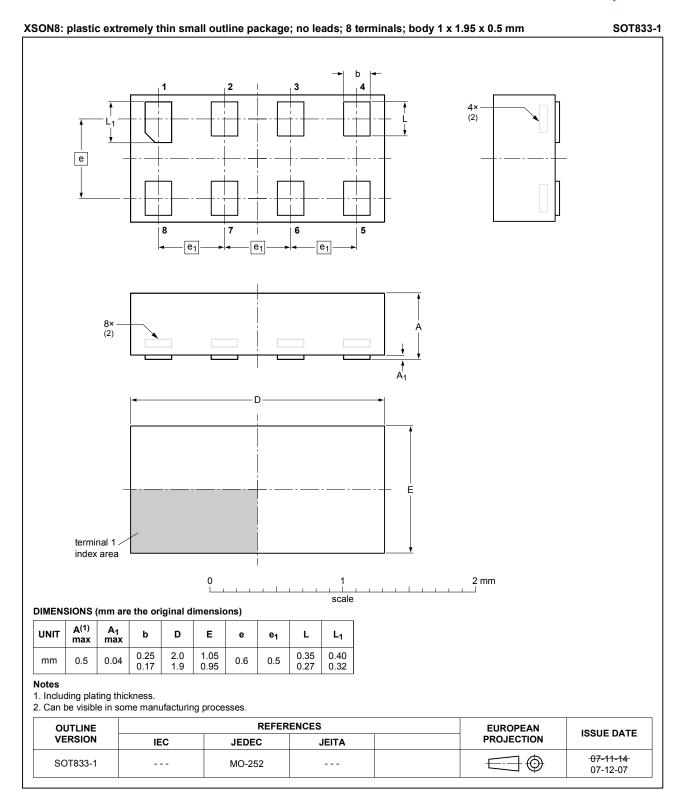


Fig. 11. Package outline SOT833-1 (XSON8)

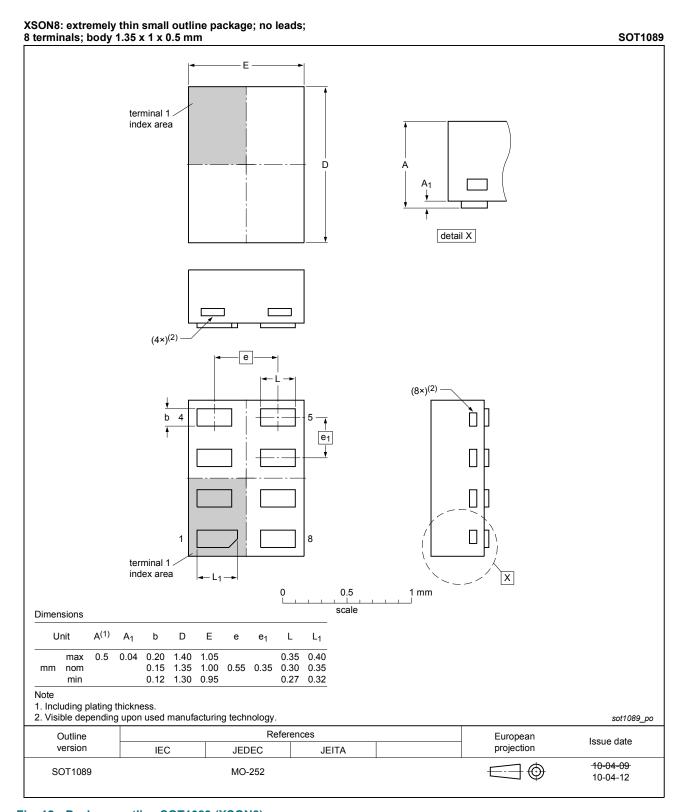


Fig. 12. Package outline SOT1089 (XSON8)

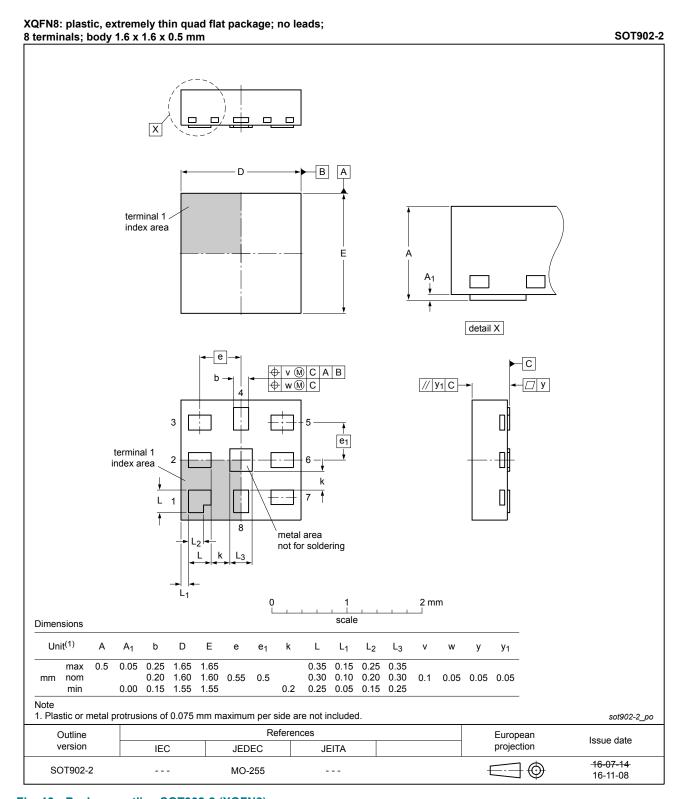


Fig. 13. Package outline SOT902-2 (XQFN8)

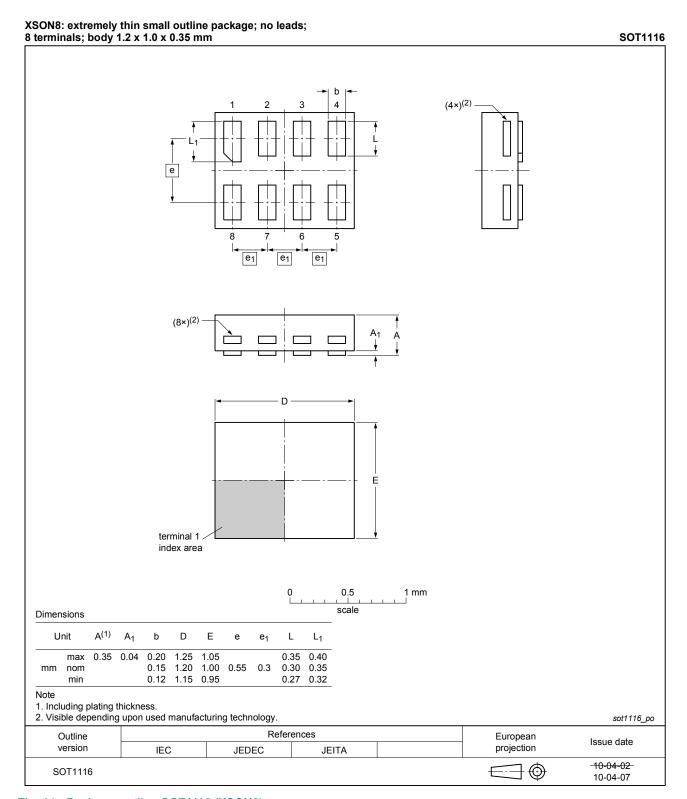


Fig. 14. Package outline SOT1116 (XSON8)

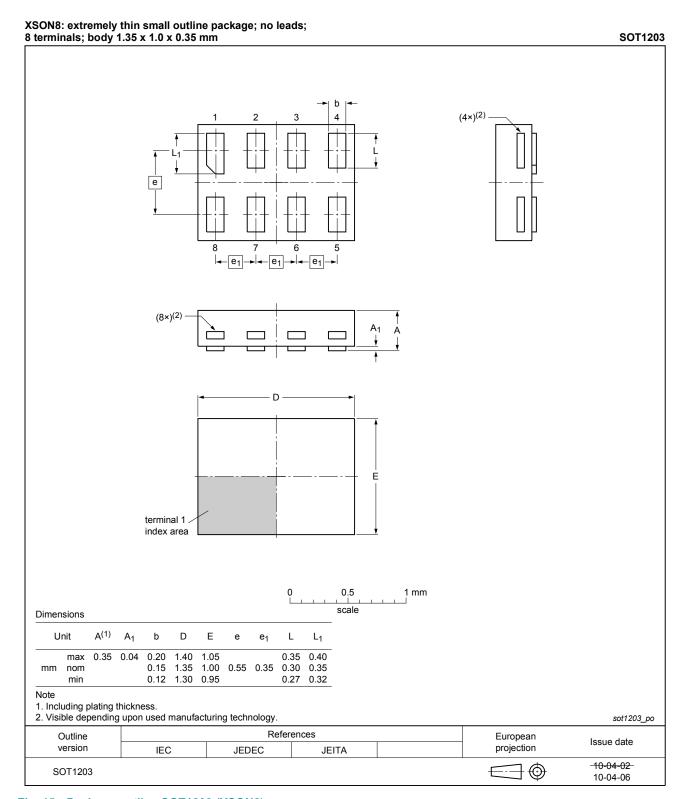


Fig. 15. Package outline SOT1203 (XSON8)

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### 13. Abbreviations

#### **Table 11. 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

## 14. Revision history

### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes				
74LVC3G34 v.13	20181026	Product data sheet	-	74LVC3G34 v.12				
Modifications:	of Nexperia. • Legal texts I	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guideline of Nexperia.</li> <li>Legal texts have been adapted to the new company name where appropriate.</li> <li>Type number 74LVC3G34GD (SOT996-2) removed.</li> </ul>						
74LVC3G34 v.12	20161215	Product data sheet	-	74LVC3G34 v.11				
Modifications:	• <u>Table 7</u> : The	maximum limits for leaka	age current and sup	ply current have changed.				
74LVC3G34 v.11	20130402	Product data sheet	-	74LVC3G34 v.10				
Modifications:	For type nur	mber 74LVC3G34GD XS0	ON8U has changed	to XSON8.				
74LVC3G34 v.10	20120808	Product data sheet	-	74LVC3G34 v.9				
Modifications:	For type nur	mber 74LVC3G34GM the	SOT code has char	nged to SOT902-2.				
74LVC3G34 v.9	20111123	Product data sheet	-	74LVC3G34 v.8				
Modifications:	<ul> <li>Legal pages</li> </ul>	updated.						
74LVC3G34 v.8	20100902	Product data sheet	-	74LVC3G34 v.7				
74LVC3G34 v.7	20080509	Product data sheet	-	74LVC3G34 v.6				
74LVC3G34 v.6	20080312	Product data sheet	-	74LVC3G34 v.5				
74LVC3G34 v.5	20071005	Product data sheet	-	74LVC3G34 v.4				
74LVC3G34 v.4	20070302	Product data sheet	-	74LVC3G34 v.3				
74LVC3G34 v.3	20050131	Product data sheet	-	74LVC3G34 v.2				
74LVC3G34 v.2	20041027	Product data sheet	-	74LVC3G34 v.1				
74LVC3G34 v.1	20040429	Product data sheet	-	-				

#### **Triple buffer**

### 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.

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### **Triple buffer**

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