

### 1. General description

The 74LVC3G34 is a triple buffer. Inputs can be driven from either 3.3 V or 5 V devices. This feature allows the use of these devices as translators in mixed 3.3 V and 5 V environments.

Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times.

This device is fully specified for partial power down applications using  $I_{OFF}$ . The  $I_{OFF}$  circuitry disables the output, preventing the potentially 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
- Overvoltage tolerant inputs to 5.5 V
- · High noise immunity
- ±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
- Complies with JEDEC standard:
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8C (2.7 V to 3.6 V)
  - JESD36 (4.5 V to 5.5 V)
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
    - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

### 3. Ordering information

#### Table 1. Ordering information

Type number	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	<u>SOT505-2</u>
74LVC3G34DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	<u>SOT765-1</u>
74LVC3G34GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	<u>SOT833-1</u>
74LVC3G34GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	<u>SOT1116</u>
74LVC3G34GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	<u>SOT1203</u>

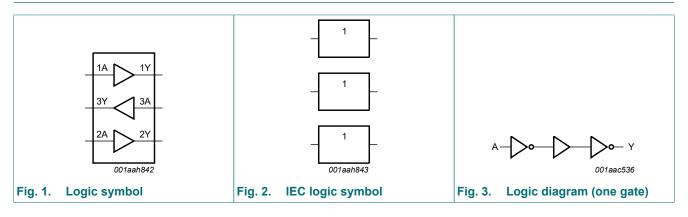
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### 4. Marking

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

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

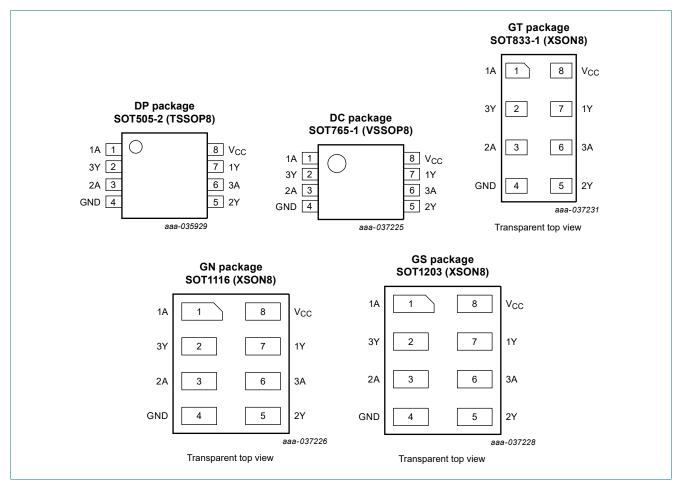
# 5. Functional diagram



74LVC3G34

# 6. Pinning information





### 6.2. Pin description

#### Table 3. Pin description

Symbol	Pin	Description
1A, 2A, 3A	1, 3, 6	data input
1Y, 2Y, 3Y	7, 5, 2	data output
GND	4	ground (0 V)
V <sub>CC</sub>	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

74LVC3G34

### 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>1</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+6.5	V
I <sub>OK</sub>	output clamping current	$V_{\rm O}$ > $V_{\rm CC}$ or $V_{\rm O}$ < 0 V	-	±50	mA
Vo	output voltage	Active mode [1]	-0.5	V <sub>CC</sub> + 0.5	V
		Power-down mode; $V_{CC} = 0 V$ [1]	-0.5	+6.5	V
I <sub>O</sub>	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 <sub>amb</sub> = -40 °C to +125 °C [2]	-	250	mW
T <sub>stg</sub>	storage temperature		-65	+150	°C

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

[2] For SOT505-2 (TSSOP8) package: P<sub>tot</sub> derates linearly with 4.6 mW/K above 96 °C.
 For SOT765-1 (VSSOP8) package: P<sub>tot</sub> derates linearly with 4.9 mW/K above 99 °C.
 For SOT833-1 (XSON8) package: P<sub>tot</sub> derates linearly with 3.1 mW/K above 68 °C.
 For SOT1116 (XSON8) package: P<sub>tot</sub> derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package: Ptot derates linearly with 3.6 mW/K above 81 °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; $V_{CC} = 0 V$	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
		$V_{CC}$ = 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	T <sub>amb</sub> =	-40 °C to	+85 °C	T <sub>an</sub> -40 °C to	T <sub>amb</sub> = -40 °C to +125 °C	
			Min	Тур [1]	Max	Min 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>он</sub>	HIGH-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$						
	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 <sub>O</sub> = -8 mA; V <sub>CC</sub> = 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	$V_{I} = V_{IH} \text{ or } V_{IL}$						
	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	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
OFF	power-off leakage current	$V_{CC}$ = 0 V; V <sub>I</sub> or V <sub>O</sub> = 5.5 V	-	±0.1	±2	-	±2	μA
сс	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	μA
∆I <sub>CC</sub>	additional supply current	per pin; $V_{CC}$ = 2.3 V to 5.5 V; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A	-	5	500	-	500	μA
Cı	input capacitance	$V_{CC}$ = 3.3 V; $V_{I}$ = GND to $V_{CC}$	-	2.5	-	-	-	pF

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

### **11. Dynamic characteristics**

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

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

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	Min	Мах	
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 4 [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	$V_1 = GND$ to $V_{CC}$ ; $V_{CC} = 3.3 V$ [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.

[1] Typical values are increasing a simple and  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . [3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).  $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$  where:

 $f_i$  = input frequency in MHz;

 $f_0$  = output frequency in MHz;

 $C_L$  = output load capacitance in pF;

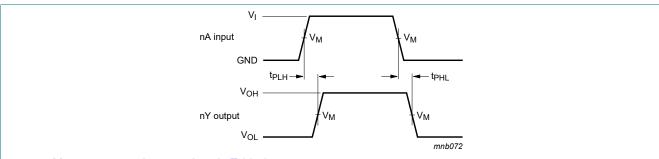
V<sub>CC</sub> = supply voltage in V;

N = number of inputs switching;

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

**Product data sheet** 

### 11.1. Waveforms and test circuit



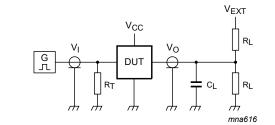
Measurement points are given in <u>Table 9</u>.

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

#### Fig. 4. 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>	$0.5 \times V_{CC}$	
2.3 V to 2.7 V	0.5 × V <sub>CC</sub>	$0.5 \times V_{CC}$	
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 × 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.

 $C_L$  = Load capacitance including jig and probe capacitance.

 $R_{T}$  = Termination resistance should be equal to the output impedance  $Z_{o}$  of the pulse generator.

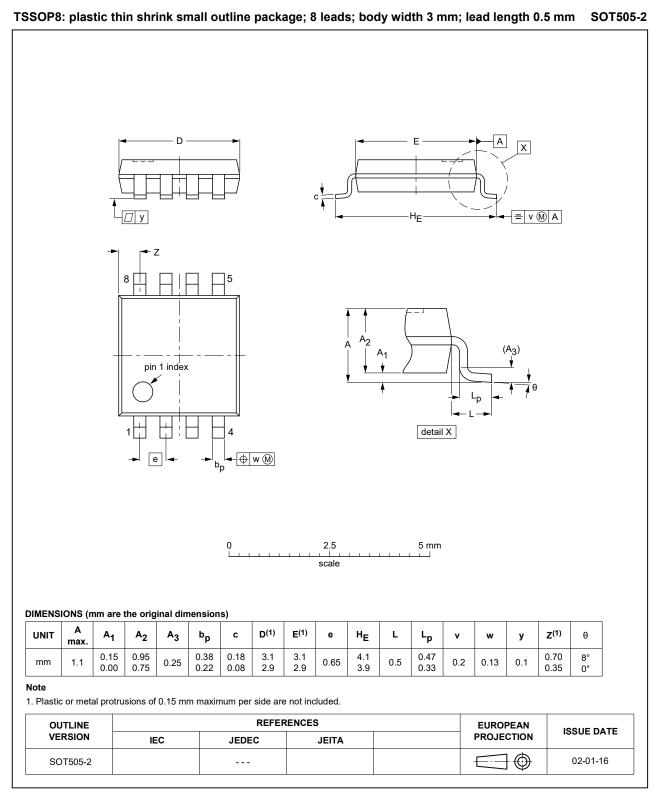
 $V_{EXT}$  = External voltage for measuring switching times.

#### Fig. 5. Test circuit for measuring switching times

Supply voltage	Input		Load	V <sub>EXT</sub>	
V <sub>cc</sub>	VI	t <sub>r</sub> = t <sub>f</sub>	CL	RL	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

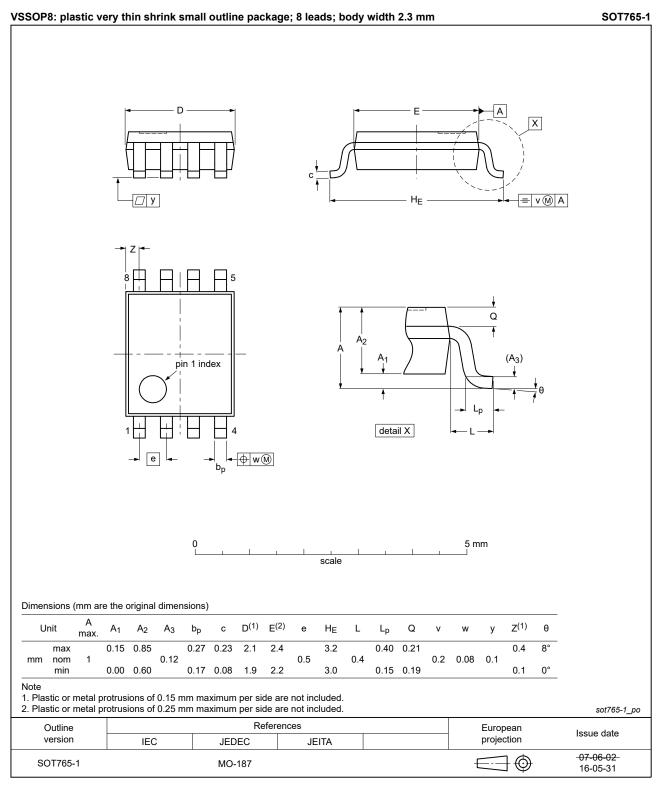
74LVC3G34

### 12. Package outline



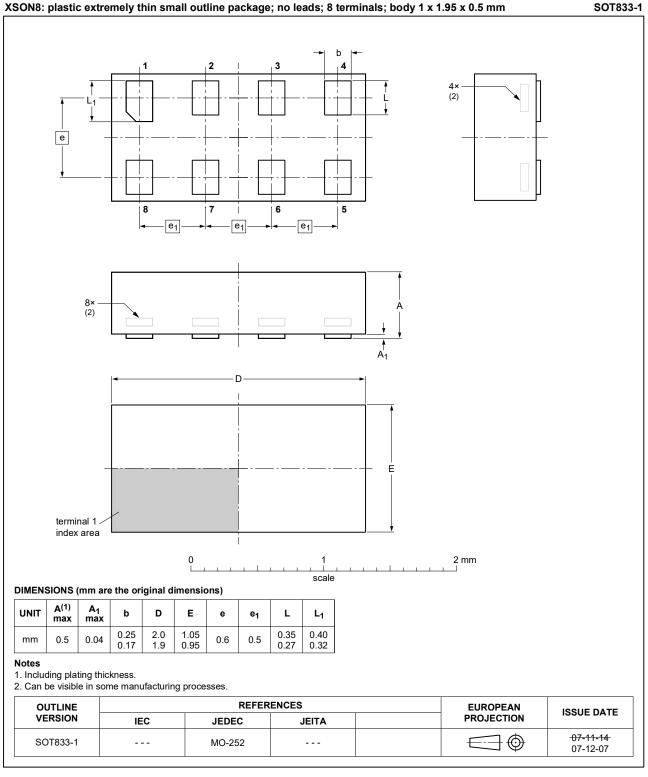
#### Fig. 6. Package outline SOT505-2 (TSSOP8)

#### **Triple buffer**





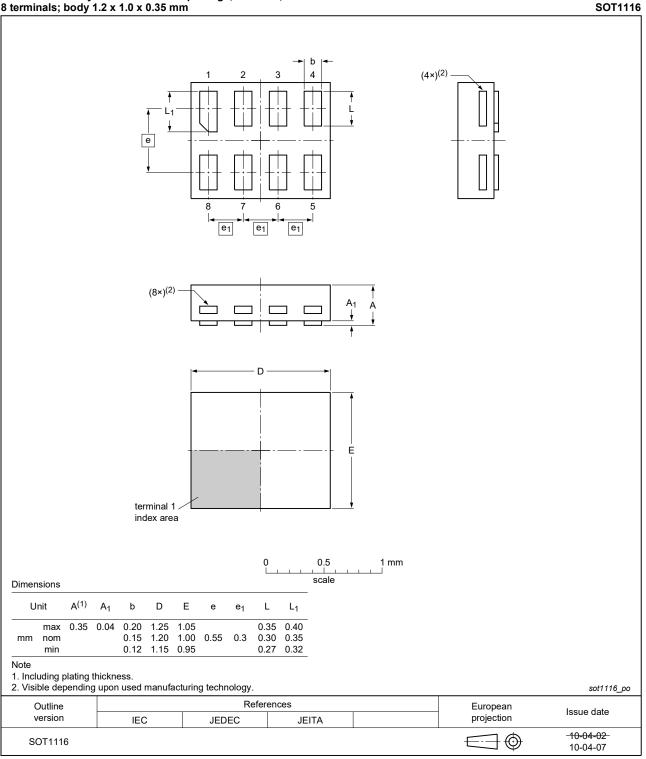
### **Triple buffer**





#### **Triple buffer**

#### XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.2 x 1.0 x 0.35 mm





### **Triple buffer**

erminals; body	1.35 x 1.0 x 0.35 mm	SOT12
	$\begin{array}{c} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & &$	
	terminal 1 index area	
Dimensions	0 0.5 1 mm scale	
	A1         b         D         E         e         e1         L         L1           0.04         0.20         1.40         1.05         0.35         0.40           0.15         1.35         1.00         0.55         0.35         0.30           0.12         1.30         0.95         0.27         0.32	
Note I. Including plating t		sot1203_k
Outline	References European	Issue date
version SOT1203	IEC JEDEC JEITA projection	- <u>10-04-02</u>

Fig. 10. Package outline SOT1203 (XSON8)

# 13. Abbreviations

Table 11. Abbreviatio	ns
Acronym	Description
ANSI	American National Standards Institute
CMOS	Complementary Metal-Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
HBM	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

# 14. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LVC3G34 v.16	20240812	Product data sheet	-	74LVC3G34 v.15	
Modifications:	Type number 74LVC3G34GF (SOT1089/XSON8) removed.				
74LVC3G34 v.15	20230824	Product data sheet	-	74LVC3G34 v.14	
Modifications:	• <u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74LVC3G34 v.14	20210825	Product data sheet	-	74LVC3G34 v.13	
Modifications:	<ul> <li><u>Section 1</u> and <u>Section 2</u> updated.</li> <li>Type number 74LVC3G34GM (SOT902-2/XQFN8) removed.</li> <li><u>Section 8</u>: Derating values for P<sub>tot</sub> total power dissipation updated.</li> </ul>				
74LVC3G34 v.13	20181026	Product data sheet	-	74LVC3G34 v.12	
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guidelines 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 leakage current and supply current have changed				
74LVC3G34 v.11	20130402	Product data sheet	-	74LVC3G34 v.10	
Modifications:	For type number 74LVC3G34GD XSON8U has changed to XSON8.				
74LVC3G34 v.10	20120808	Product data sheet	-	74LVC3G34 v.9	
Modifications:	For type number 74LVC3G34GM the SOT code has changed to SOT902-2.				
74LVC3G34 v.9	20111123	Product data sheet	-	74LVC3G34 v.8	
Modifications:	Legal pages 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	

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#### **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.

 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 <u>https://www.nexperia.com</u>.

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### **Triple buffer**

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