Triple buffer with open-drain output Rev. 14 — 28 January 2021

### 1. General description

The 74LVC3G07 provides three non-inverting buffers.

The output of the device is an open-drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

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 all inputs 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
- 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)
  - JESD8-B/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
- Inputs accept voltages up to 5 V
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C.

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# 3. Ordering information

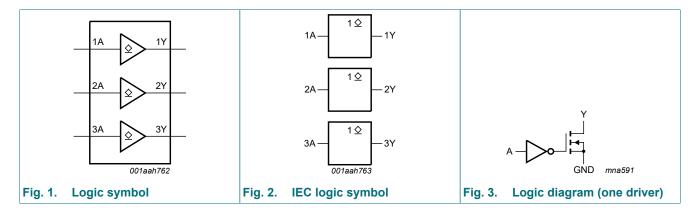
Type number	Package						
	Temperature range	Name	Description	Version			
74LVC3G07DP	-40 °C to +125 °C	TSSOP8	plastic thin shrink small outline package; 8 leads; body width 3 mm; lead length 0.5 mm	SOT505-2			
74LVC3G07DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1			
74LVC3G07GT	-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			
74LVC3G07GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089			
74LVC3G07GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116			
74LVC3G07GS	-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]		
74LVC3G07DP	V07		
74LVC3G07DC	V07		
74LVC3G07GT	V07		
74LVC3G07GF	V7		
74LVC3G07GN	V7		
74LVC3G07GS	V7		

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

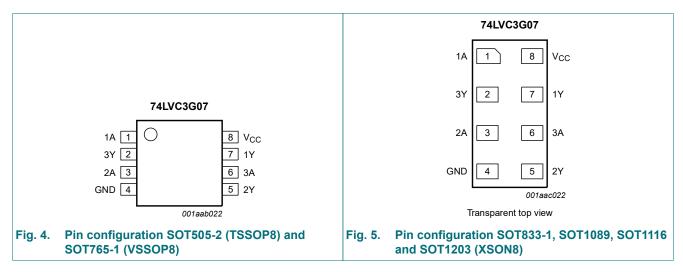
# 5. Functional diagram



74LVC3G07

### 6. Pinning information





### 6.2. Pin description

Table 3. Pin description				
Symbol	Pin	Description		
1A, 2A, 3A	1, 3, 6	data input		
GND	4	ground (0 V)		
1Y, 2Y, 3Y	7, 5, 2	data output		
V <sub>CC</sub>	8	supply voltage		

### 7. Functional description

#### Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; Z = high-impedance OFF-state.

Input nA	Output nY
L	L
Н	Z

### 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
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V	-50	-	mA
Vo	output voltage	Active mode [1]	-0.5	+6.5	V
		Power-down mode; $V_{CC} = 0 V$ [1]	-0.5	+6.5	V
lo	output current	V <sub>O</sub> = 0 V to 6.5 V	-	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 [2]	-	250	mW

The minimum input and output voltage ratings may be exceeded if the input and output current ratings are observed. [1] [2]

For SOT505-2 (TSSOP8) package: Ptot derates linearly with 4.6 mW/K above 96 °C.

For SOT765-1 (VSSOP8) package: Ptot derates linearly with 4.9 mW/K above 99 °C.

For SOT833-1 (XSON8) package: Ptot derates linearly with 3.1 mW/K above 68 °C.

For SOT1089 (XSON8) package: Ptot derates linearly with 4.0 mW/K above 88 °C.

For SOT1116 (XSON8) package: Ptot 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	5.5	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	<sub>nb</sub> = o +125 °C	Unit
			Min	Тур [1]	Max	Min	Мах	
VIH	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
VIL	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>OL</sub>	LOW-level output	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>						
voltage	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	-	0.70	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	-	0.60	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	-	0.80	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.55	-	0.80	V
lı	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
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL};$ $V_{O} = V_{CC} \text{ or } GND;$ $V_{CC} = 5.5 \text{ V}$	-	±0.1	±2	-	±2	μA
I <sub>OFF</sub>	power-off leakage current	$V_{\rm I} \text{ or } V_{\rm O} = 5.5 \text{ V}; V_{\rm CC} = 0 \text{ V}$	-	±0.1	±2	-	±2	μA
I <sub>CC</sub>	supply current	$V_1 = 5.5 V \text{ or GND}; I_0 = 0 A;$ $V_{CC} = 1.65 V \text{ to } 5.5 V$	-	0.1	4	-	4	μA
ΔI <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
CI	input capacitance		-	2.5	-	-	-	pF

[1] All typical values are measured at V\_{CC} = 3.3 V and at T\_{amb} = 25 °C.

### **11. Dynamic characteristics**

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

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 7.

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	Max	
t <sub>pd</sub> propagation delay		nA to nY; see Fig. 6 [2						
	delay	V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	2.9	6.7	1.0	8.4	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	1.7	4.3	0.5	5.5	ns
		V <sub>CC</sub> = 2.7 V	1.0	2.3	4.2	1.0	5.3	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	2.1	3.7	0.5	4.7	ns
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.5	1.5	2.9	0.5	3.7	ns
C <sub>PD</sub>	power dissipation capacitance	$V_{I} = GND$ to $V_{CC}$ ; $V_{CC} = 3.3 V$ [3	-	6.5	-	-	-	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  $t_{PLZ}$  and  $t_{PZL}$ . [3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu$ W).

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$ 

 $f_i$  = input frequency in MHz;

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

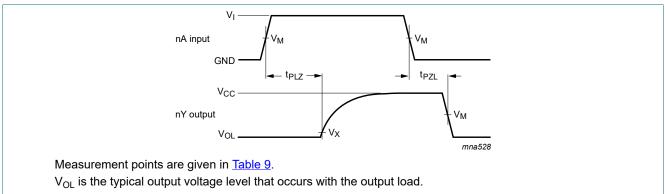
 $C_L$  = output load capacitance in pF;

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

N = number of inputs switching;

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

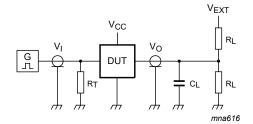
### 11.1. Waveforms and test circuit



#### Fig. 6. The 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>	Vx
1.65 V to 1.95 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V
2.3 V to 2.7 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V
2.7 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V
3.0 V to 3.6 V	1.5 V	1.5 V	V <sub>OL</sub> + 0.3 V
4.5 V to 5.5 V	0.5 × V <sub>CC</sub>	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V



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.

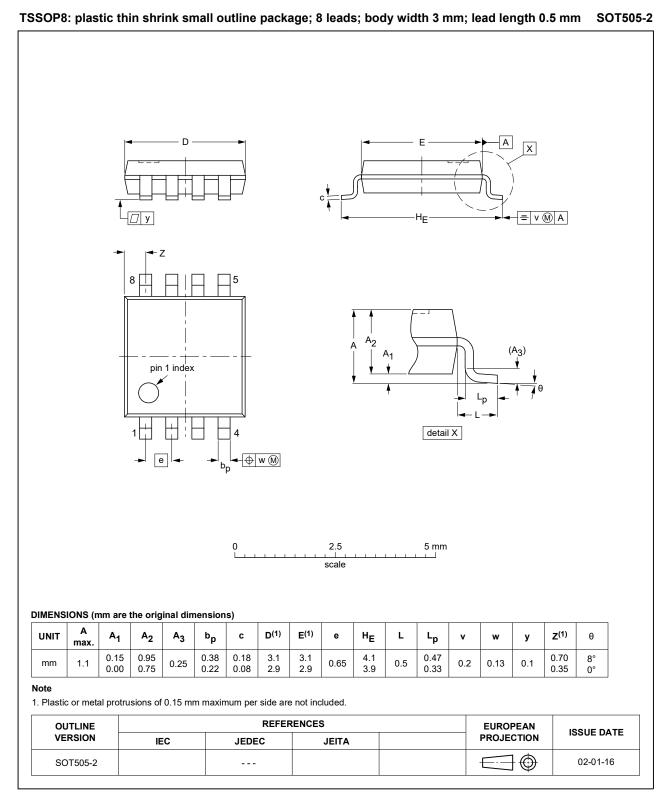
 $V_{EXT}$  = External voltage for measuring switching times.

#### Fig. 7. Test circuit for measuring switching times

#### Table 10. Test data

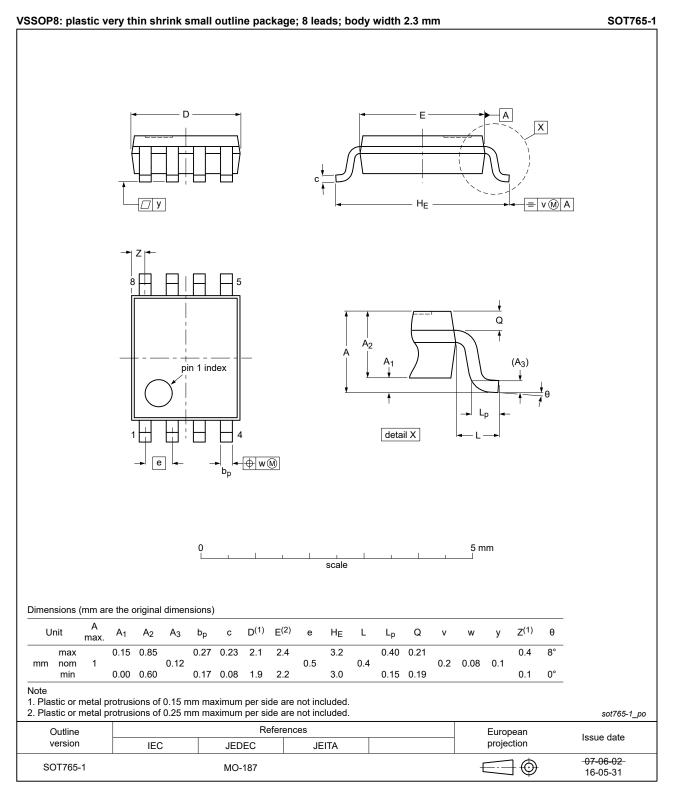
Supply voltage Input			Load	V <sub>EXT</sub>	
V <sub>cc</sub>	VI	t <sub>r</sub> = t <sub>f</sub>	CL	RL	t <sub>PZL</sub> , t <sub>PLZ</sub>
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	$2 \times V_{CC}$
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	$2 \times V_{CC}$
2.7 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	6 V
3.0 V to 3.6 V	2.7 V	≤ 2.5 ns	50 pF	500 Ω	6 V
4.5 V to 5.5 V	V <sub>CC</sub>	≤ 2.5 ns	50 pF	500 Ω	$2 \times V_{CC}$

### 12. Package outline



#### Fig. 8. Package outline SOT505-2 (TSSOP8)

### Triple buffer with open-drain output





### Triple buffer with open-drain output

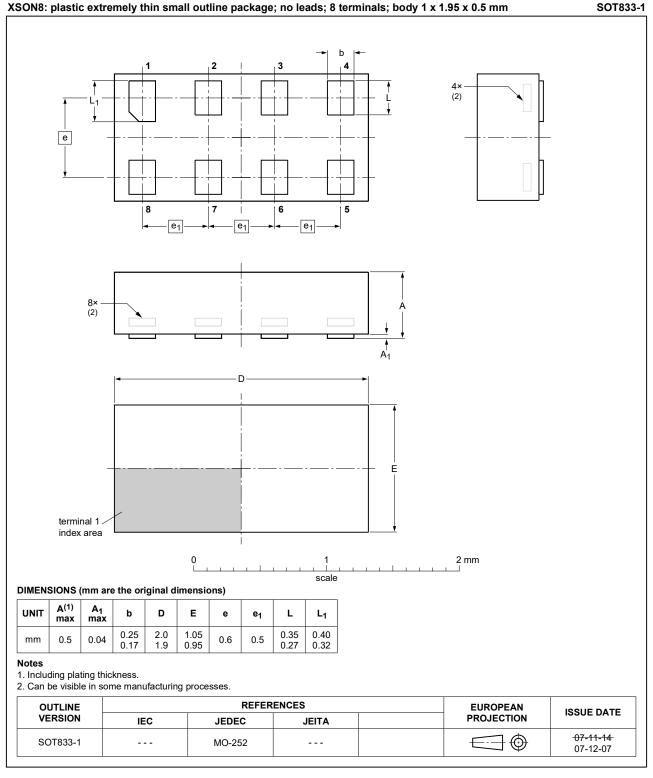
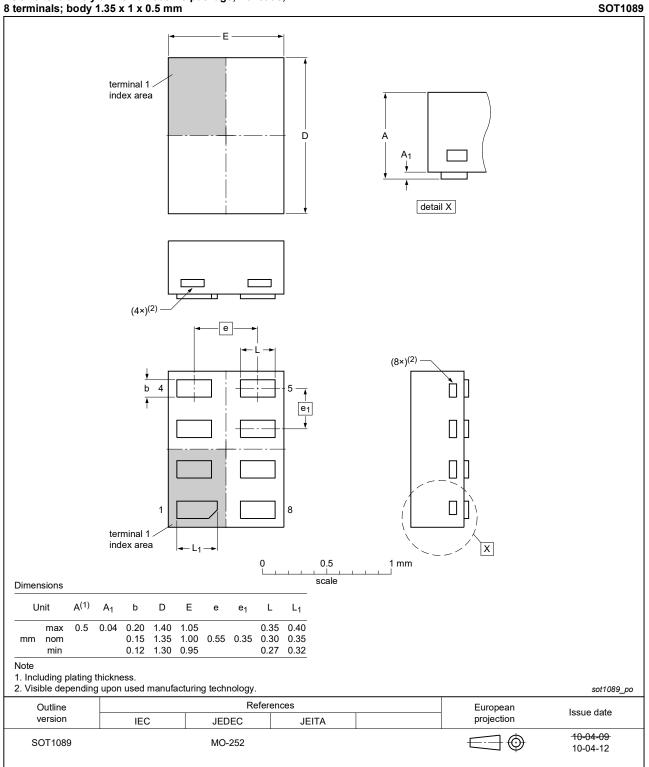


Fig. 10. Package outline SOT833-1 (XSON8)

### Triple buffer with open-drain output



#### XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1 x 0.5 mm

Fig. 11. Package outline SOT1089 (XSON8)

### Triple buffer with open-drain output

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

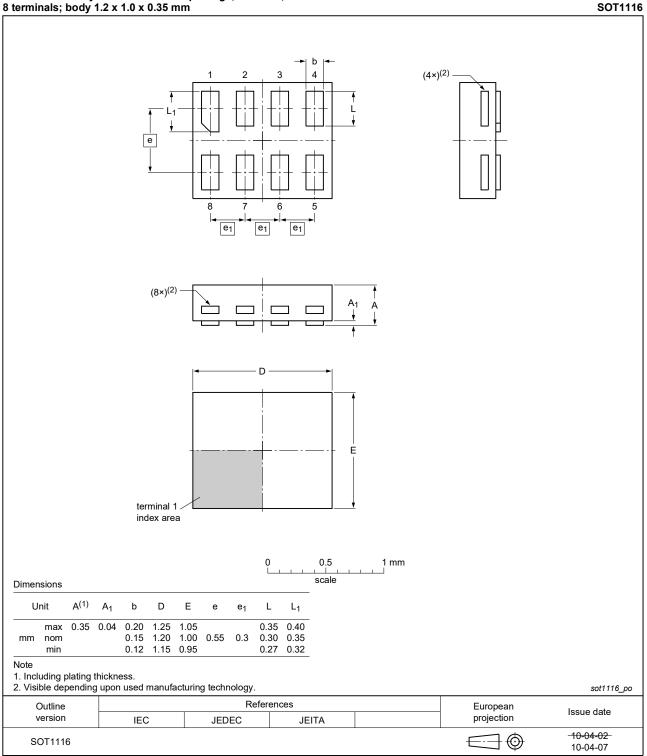


Fig. 12. Package outline SOT1116 (XSON8)

### Triple buffer with open-drain output

#### XSON8: extremely thin small outline package; no leads; SOT1203 8 terminals; body 1.35 x 1.0 x 0.35 mm b (4×)<sup>(2)</sup> 4 3 2 е 8 6 5 e<sub>1</sub> \* \* - e<sub>1</sub> e<sub>1</sub> $(8 \times)^{(2)}$ А С D E terminal 1 index area 1 mm 0.5 0 1 scale Dimensions Unit A<sup>(1)</sup> A<sub>1</sub> b D Е L е e<sub>1</sub> $L_1$ 0.35 0.04 0.20 1.40 1.05 0.35 0.40 max 0.15 1.00 $0.55 \quad 0.35 \quad 0.30 \quad 0.35$ mm nom 1.35 min 0.12 1.30 0.95 0.27 0.32 Note 1. Including plating thickness. 2. Visible depending upon used manufacturing technology. sot1203\_po References Outline European Issue date version projection IEC JEDEC JEITA -10-04-02-SOT1203 ∃⊚ $\leftarrow$ 10-04-06

Fig. 13. Package outline SOT1203 (XSON8)

### 13. Abbreviations

Table 11. 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		

### 14. Revision history

#### Table 12. Revision history **Document ID** Release date Data sheet status Change notice Supersedes 74LVC3G07 v.14 20210128 Product data sheet 74LVC3G07 v.13 Modifications: Type number 74LVC3G07GM (SOT902-2 / XQFN8) removed. Table 5: Derating values for Ptot total power dissipation updated. 74LVC3G07 v.13 20181023 Product data sheet 74LVC3G07 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 number 74LVC3G07GD (SOT996-2) removed. 74LVC3G07 v.12 20161215 Product data sheet 74LVC3G07 v.11 Modifications: Table 7: The maximum limits for leakage current and supply current have changed. 74LVC3G07 v.11 20130409 Product data sheet 74LVC3G07 v.10 Modifications: For type number 74LVC3G07GD XSON8U has changed to XSON8. 74LVC3G07 v.10 20120627 Product data sheet 74LVC3G07 v.9 Modifications: For type number 74LVC3G07GM the SOT code has changed to SOT902-2. 74LVC3G07 v.9 20111123 Product data sheet 74LVC3G07 v.8 Modifications: Legal pages updated. 74LVC3G07 v.8 20111019 Product data sheet 74LVC3G07 v.7 \_ 74I VC3G07 v.7 20100809 Product data sheet 74LVC3G07 v.6 74LVC3G07 v.6 Product data sheet 20080616 74LVC3G07 v.5 \_ 74LVC3G07 v.5 Product data sheet 20080219 \_ 74LVC3G07 v.4 Product data sheet 74LVC3G07 v.4 20070521 74LVC3G07 v.3 74LVC3G07 v.3 20050201 Product data sheet 74LVC3G07 v.2 Product data sheet 74LVC3G07 v.2 20041027 74LVC3G07 v.1 74LVC3G07 v.1 20040608 Product data sheet

### 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.
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### Contents

1. General description	1
2. Features and benefits	1
3. Ordering information	2
4. Marking	2
5. Functional diagram	2
6. Pinning information	3
6.1. Pinning	3
6.2. Pin description	3
7. Functional description	3
8. Limiting values	4
9. Recommended operating conditions	4
10. Static characteristics	5
11. Dynamic characteristics	6
11.1. Waveforms and test circuit	7
12. Package outline	8
13. Abbreviations	14
14. Revision history	14
15. Legal information	15

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