### **1** General description

The 74LVC2G07 provides two non-inverting buffers.

The output of this 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.

Inputs 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 2 000 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
- · 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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Buffers with open-drain outputs

# 3 Ordering information

Table 1. Orderin	g information			
Type number	Package			
	Temperature range	Name	Description	Version
74LVC2G07GW	-40 °C to +125 °C	SC-88	plastic surface-mounted package; 6 leads	SOT363
74LVC2G07GV	-40 °C to +125 °C	TSOP6	plastic surface-mounted package (TSOP6); 6 leads	SOT457
74LVC2G07GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm	SOT886
74LVC2G07GF	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1 x 0.5 mm	SOT891
74LVC2G07GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm	SOT1115
74LVC2G07GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm	SOT1202
74LVC2G07GX	-40 °C to +125 °C	X2SON6	plastic thermal extremely thin small outline package; no leads; 6 terminals; body 1 x 0.8 x 0.35 mm	SOT1255

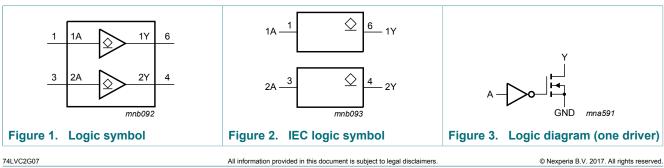
### 4 Marking

#### Table 2. Marking

Type number	Marking code <sup>[1]</sup>
74LVC2G07GW	V7
74LVC2G07GV	V07
74LVC2G07GM	V7
74LVC2G07GF	V7
74LVC2G07GN	V7
74LVC2G07GS	V7
74LVC2G07GX	V7

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

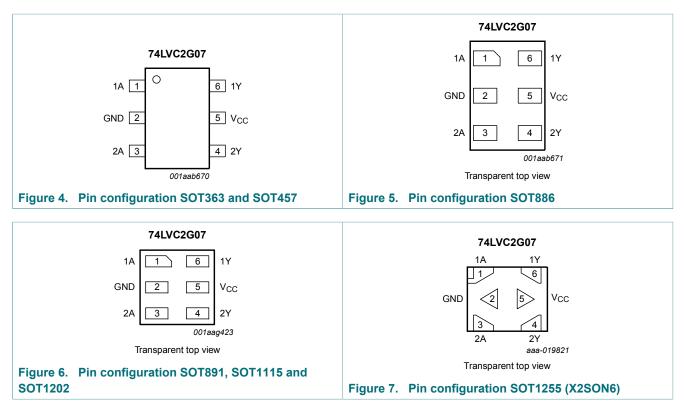
## 5 Functional diagram



Product data sheet

# **6 Pinning information**

### 6.1 Pinning



### 6.2 Pin description

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

#### **Functional description** 7

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

Input nA	Output nY
L	L
Н	Z

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

#### **Limiting values** 8

#### 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	Мах	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>ОК</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	[1] [2]	-0.5	+6.5	V
I <sub>O</sub>	output current	$V_{O} = 0 V \text{ to } 6.5 V$		-	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	$T_{amb}$ = -40 °C to +125 °C	[3]	-	250	mW

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

[2] [3] When  $V_{CC} = 0 V$  (Power-down mode), the output voltage can be 5.5 V in normal operation.

For SC-88 and SC-74 packages: above 87.5 °C the value of Ptot derates linearly with 4.0 mW/K.

For X2SON6 and XSON6 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

#### **Recommended operating conditions** 9

Symbol	Parameter	Conditions	Min	Тур	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	V <sub>CC</sub> = 1.65 V to 2.7 V	-	-	20	ns/V
	fall rate	V <sub>CC</sub> = 2.7 V to 5.5 V	-	-	10	ns/V

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Buffers with open-drain outputs

# **10 Static characteristics**

### Table 7. Static characteristics

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

V <sub>IH</sub>	) °C to +85 °C <sup>[1]</sup> HIGH-level input voltage	V <sub>CC</sub> = 1.65 V to 1.95 V V <sub>CC</sub> = 2.3 V to 2.7 V	0.65 x V <sub>CC</sub>	-	1	
			$0.65 \times V_{CC}$	_	T	
	voltage	V <sub>CC</sub> = 2.3 V to 2.7 V			-	V
			1.7	-	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	$0.7  ext{ x V}_{CC}$	-	-	V
	LOW-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
	voltage	V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	$0.3 \times V_{CC}$	V
V <sub>OL</sub> LOW-level output		V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>				
	voltage	$I_{\rm O}$ = 100 $\mu \text{A}; V_{\rm CC}$ = 1.65 V to 5.5 V	-	-	0.10	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.45	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.30	V
		$I_{O}$ = 12 mA; $V_{CC}$ = 2.7 V	-	-	0.40	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.55	V
		$I_{O}$ = 32 mA; $V_{CC}$ = 4.5 V	-	-	0.55	V
l <sub>l</sub>	input leakage current	$V_{I}$ = 5.5 V or GND; $V_{CC}$ = 0 V to 5.5 V <sup>[2]</sup>	-	±0.1	±1	μA
02	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	μA
-	power-off leakage current	$V_1 \text{ or } V_0 = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	±0.1	±2	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	4	μA
	additional supply current	per pin; $V_I = V_{CC} - 0.6 \text{ V}$ ; $I_O = 0 \text{ A}$ ; [2] $V_{CC} = 2.3 \text{ V}$ to 5.5 V	-	5	500	μA
CI	input capacitance		-	2.5	-	pF

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### Buffers with open-drain outputs

Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
T <sub>amb</sub> = -4	0 °C to +125 °C					<u>,</u>
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 x V <sub>CC</sub>	-	-	V
	voltage	$V_{CC}$ = 2.3 V to 2.7 V	1.7	-	-	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	-	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	0.7 x V <sub>CC</sub>	-	-	V
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	$0.35 \times V_{CC}$	V
	voltage	$V_{CC}$ = 2.3 V to 2.7 V	-	-	0.7	V
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	V
		V <sub>CC</sub> = 4.5 V to 5.5 V	-	-	$0.3 \times V_{CC}$	V
V <sub>OL</sub> LOW-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$					
	voltage	$I_{O}$ = 100 µA; $V_{CC}$ = 1.65 V to 5.5 V	-	-	0.10	V
		I <sub>O</sub> = 4 mA; V <sub>CC</sub> = 1.65 V	-	-	0.70	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 2.3 V	-	-	0.45	V
		$I_{O}$ = 12 mA; $V_{CC}$ = 2.7 V	-	-	0.60	V
		I <sub>O</sub> = 24 mA; V <sub>CC</sub> = 3.0 V	-	-	0.80	V
		I <sub>O</sub> = 32 mA; V <sub>CC</sub> = 4.5 V	-	-	0.80	V
l <sub>l</sub>	input leakage current	$V_{I}$ = 5.5 V or GND; $V_{CC}$ = 0 V to 5.5 V	-	-	±1	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = V_{CC} \text{ or } GND;$ $V_{CC} = 5.5 V$	-	-	±2	μA
I <sub>OFF</sub>	power-off leakage current	$V_{1} \text{ or } V_{0} = 5.5 \text{ V}; V_{CC} = 0 \text{ V}$	-	-	±2	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	-	-	4	μA
ΔI <sub>CC</sub>	additional supply current	per pin; 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	-	-	500	μA

# **11 Dynamic characteristics**

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

Voltages are referenced to GND (ground = 0 V). For test circuit see Figure 9.

Symbol	Parameter	Conditions	-40 °C to +85 °C		-40 °C to +125 °C		Unit	
			Min	Typ <sup>[1]</sup>	Max	Min	Мах	
t <sub>pd</sub>	propagation delay	nA to nY; see <u>Figure 8</u> <sup>[2]</sup>						
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3.5	6.7	1.0	8.4	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.5	2.4	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
		$V_{CC}$ = 3.0 V to 3.6 V	0.5	2.6	3.7	0.5	4.7	ns
		$V_{CC}$ = 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 <sup>[3]</sup>	-	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  $t_{PZL}.$   $C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in µW). [3]

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

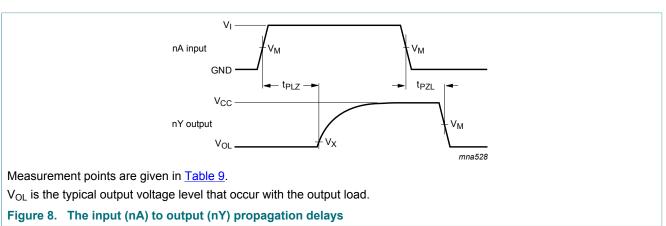
f<sub>i</sub> = input frequency in MHz;

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

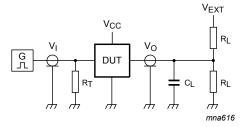
### 11.1 Waveform and test circuit



### Buffers with open-drain outputs

### Table 9. Measurement points

Supply voltage	Input	Output		
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	
1.65 V to 1.95 V	0.5 x V <sub>CC</sub>	0.5 x V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	
2.3 V to 2.7 V	0.5 x V <sub>CC</sub>	0.5 x 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 x V <sub>CC</sub>	0.5 x 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.

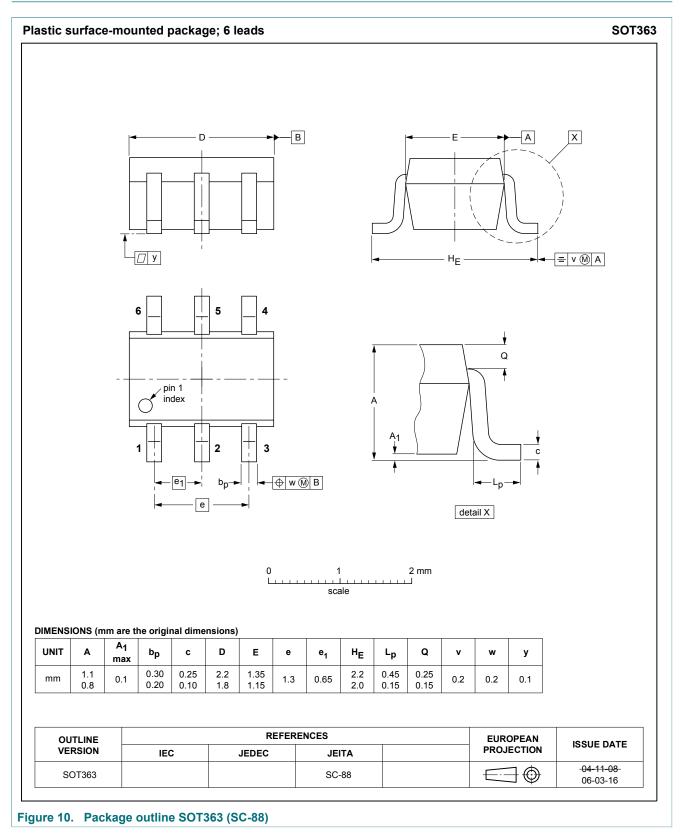
Figure 9. Test circuit for measuring switching times

#### Table 10. Test data

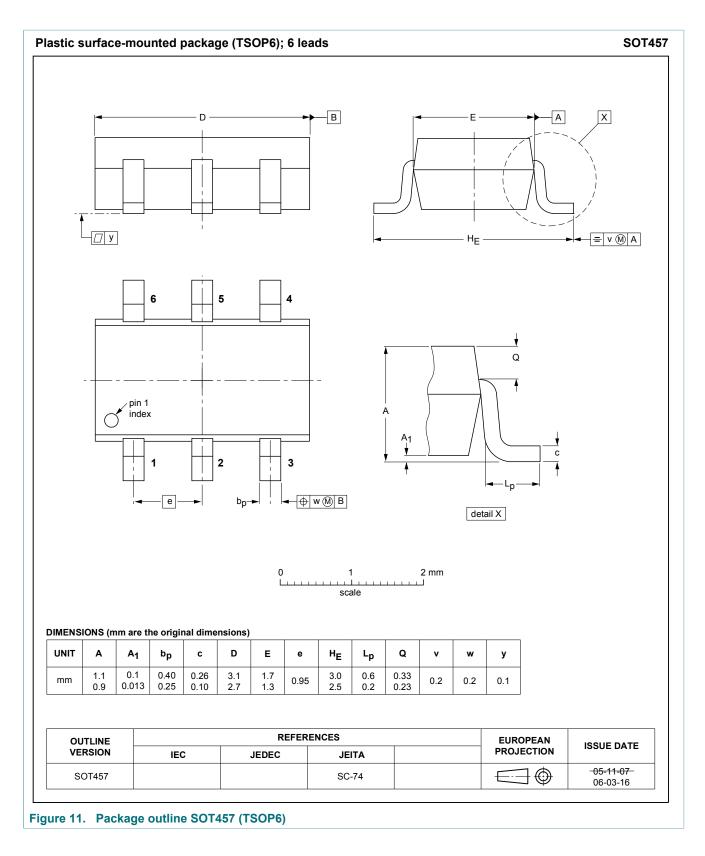
Supply voltage	Input		Load		V <sub>EXT</sub>
V <sub>cc</sub>	Vi	t <sub>r</sub> , t <sub>f</sub>	CL	RL	t <sub>PZL</sub> , t <sub>PLZ</sub>
1.65 V to 1.95 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	1 kΩ	2 × V <sub>CC</sub>
2.3 V to 2.7 V	V <sub>CC</sub>	≤ 2.0 ns	30 pF	500 Ω	2 × V <sub>CC</sub>
2.7 V	2.7 V	≤ 2.5 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 × V <sub>CC</sub>

Buffers with open-drain outputs

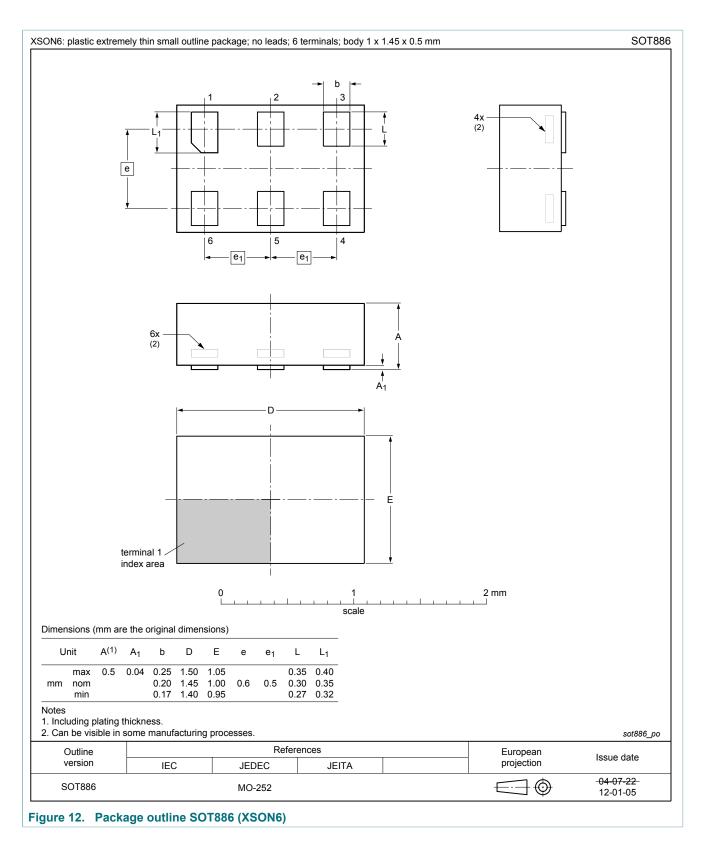
# 12 Package outline



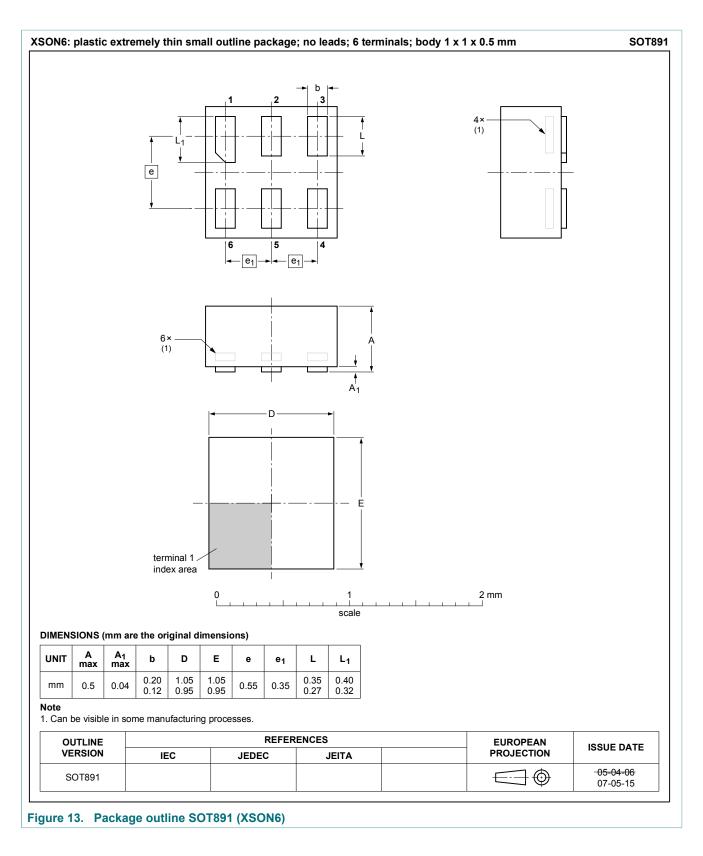
### Buffers with open-drain outputs



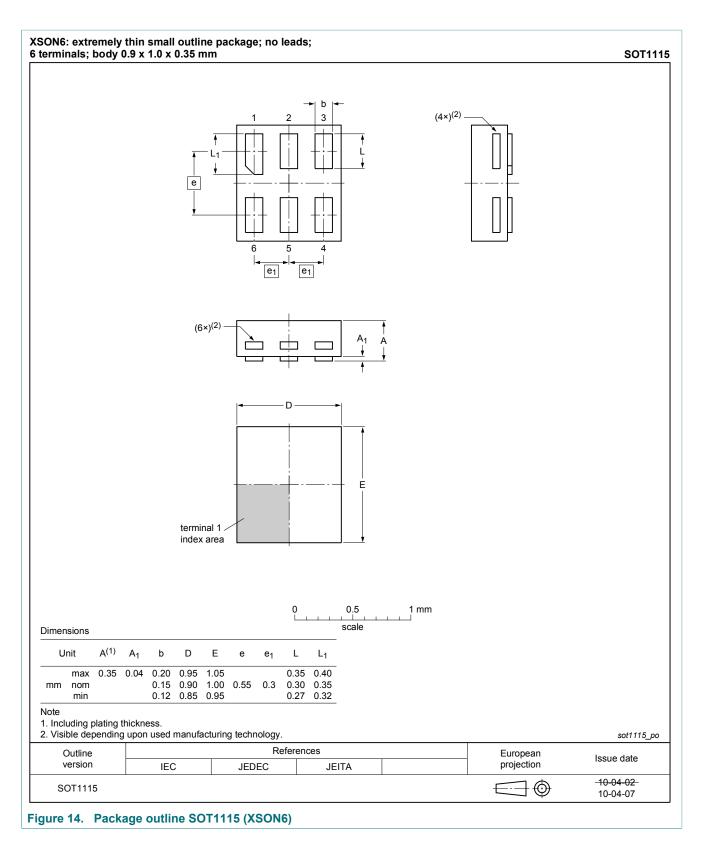
### Buffers with open-drain outputs



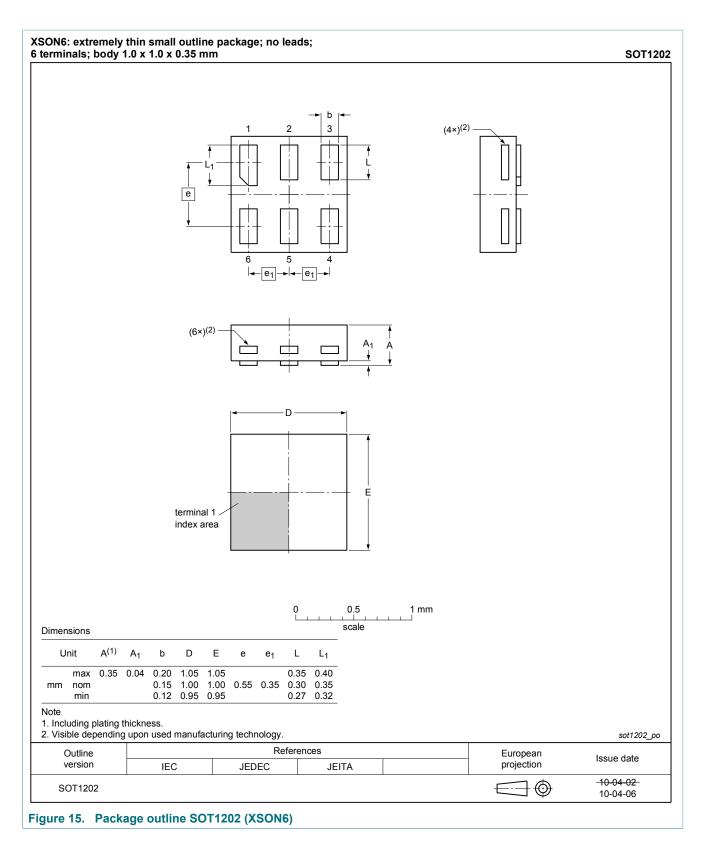
### Buffers with open-drain outputs



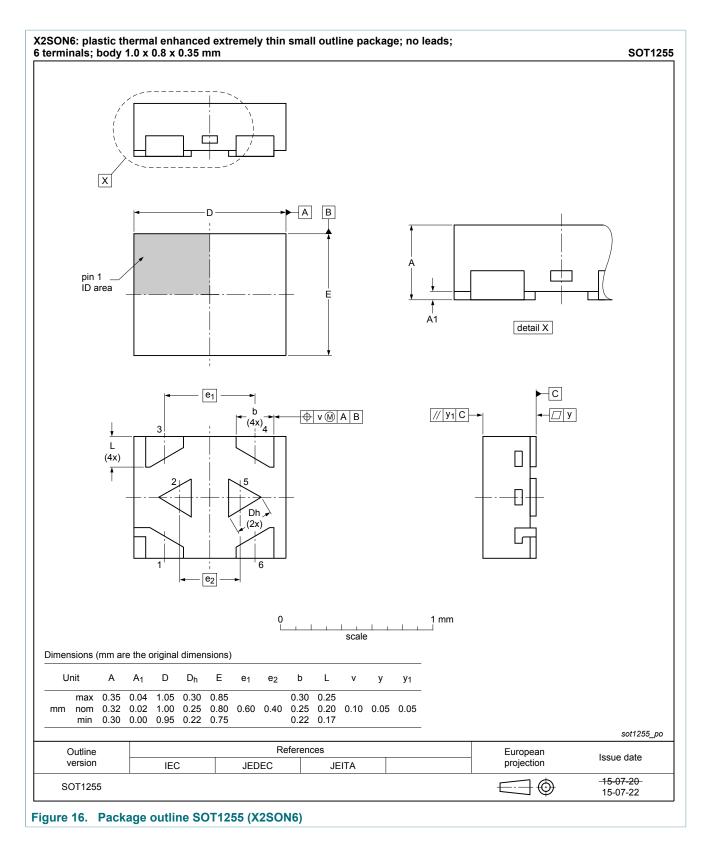
### Buffers with open-drain outputs



### Buffers with open-drain outputs



### Buffers with open-drain outputs



# **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		
74LVC2G07 v.10	20170821	Product data sheet	-	74LVC2G07 v.9		
Modifications:	Nexperia.	<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> </ul>				
74LVC2G07 v.9	20161212	Product data sheet	-	74LVC2G07 v.8		
Modifications:	• <u>Table 7</u> : The m	• <u>Table 7</u> : The maximum limits for leakage current and supply current have changed.				
74LVC2G07 v.8	20150923	Product data sheet	-	74LVC2G07 v.7		
Modifications:	<ul> <li>Added type nur</li> </ul>	Added type number 74LVC2G07GX (SOT1255/X2SON6).				
74LVC2G07 v.7	20120704	Product data sheet	-	74LVC2G07 v.6		
Modifications:	<ul> <li>Package outline</li> </ul>	Package outline drawing of SOT886 (Figure 12) modified.				
74LVC2G07 v.6	20111130	Product data sheet	-	74LVC2G07 v.5		
Modifications:	Legal pages updated.					
74LVC2G07 v.5	20100806	Product data sheet	-	74LVC2G07 v.4		
74LVC2G07 v.4	20070521	Product data sheet	-	74LVC2G07 v.3		
74LVC2G07 v.3	20040908	Product data sheet	-	74LVC2G07 v.2		
74LVC2G07 v.2	20040319	Product data sheet	-	74LVC2G07 v.1		
74LVC2G07 v.1	20030825	Product data sheet	-	-		

# 15 Legal information

### 15.1 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.

Please consult the most recently issued document before initiating or completing a design. [1]

The term 'short data sheet' is explained in section "Definitions".

[2] [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.nexperia.com.

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