**Product data sheet** 

### 1 General description

The 74AVC9112 is a 1-to-4 fan-out buffer suitable for use in clock distribution. It has a data input (A), four data outputs (Yn) and an output enable input  $(\overline{OE})$ .  $V_{CC}$  can be supplied at any voltage between 0.8 V and 3.6 V. A HIGH on  $\overline{OE}$  causes all outputs to be pulled LOW via pull-down resistors, a LOW on  $\overline{OE}$  disconnects the pull-down resistors and enables all outputs.

Schmitt trigger action at all inputs makes the circuit tolerant for slower input rise and fall time.

The  $I_{OFF}$  circuitry disables the output, preventing any damaging backflow current through the device when it is powered down.

#### 2 Features and benefits

- Wide supply voltage range:
  - V<sub>CC</sub>: 0.8 V to 3.6 V
- Complies with JEDEC standards:
  - JESD8-12 (0.8 V to 1.3 V)
  - JESD8-11 (0.9 V to 1.65 V)
  - JESD8-7 (1.2 V to 1.95 V)
  - JESD8-5 (1.8 V to 2.7 V)
  - JESD8-B (2.7 V to 3.6 V)
- ESD protection:
  - HBM ANSI/ESDA/JEDEC JS-001 Class 3B exceeds 8 kV
  - CDM JESD22-C101 exceeds 1000 V
- Maximum data rates:
  - 380 Mbit/s (3.3 V)
  - 200 Mbit/s (2.5 V)
  - 200 Mbit/s (1.8 V)
  - 150 Mbit/s (1.5 V)
  - 100 Mbit/s (1.2 V)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 3.6 V
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



# 3 Ordering information

**Table 1. Ordering information** 

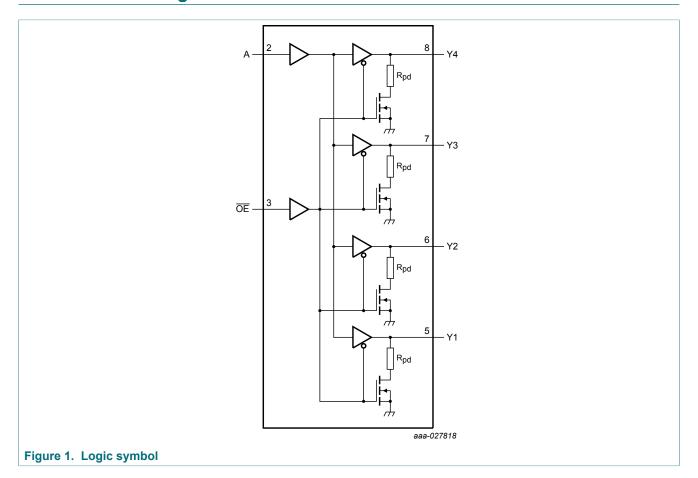
Type number	Package			
	Temperature range	Name	Description	Version
74AVC9112DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74AVC9112GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm	SOT833-1

# 4 Marking

Table 2. Marking codes

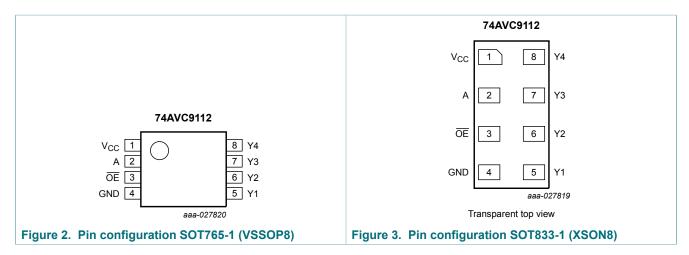
	Type number	Marking code
Ì	74AVC9112DC	Bb
Ì	74AVC9112GT	Bb

# 5 Functional diagram



# 6 Pinning information

### 6.1 Pinning



### 6.2 Pin description

Table 3. Pin description

Symbol	Pin	Description
V <sub>CC</sub>	1	supply voltage
A	2	data input
ŌĒ	3	output enable input (active LOW)
GND	4	ground (0 V)
Y1, Y2, Y3, Y4	5, 6, 7, 8	data outputs

# 7 Functional description

Table 4. Function table [1]

Table II Talleton table						
Inputs	Output					
ŌE	A	Yn				
L	L	L				
L	Н	Н				
Н	X	L				

<sup>[1]</sup> H = HIGH voltage level;

L = LOW voltage level;

X = don't care.

## **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	+4.6	V
VI	input voltage		[1]	-0.5	+4.6	V
Vo	output voltage	OE = LOW	[1] [2]	-0.5	V <sub>CC</sub> + 0.5	V
		ŌE = HIGH	[1]	-0.5	+4.6	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V		-50	-	mA
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V		-50	-	mA
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
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				
		SOT765-1 package	[3]	-	250	mW
		SOT833-1 package	[4]	-	250	mW

 <sup>[1]</sup> The minimum input voltage ratings and output voltage ratings may be exceeded if the input and output current ratings are observed.
 [2] V<sub>CC</sub> + 0.5 V should not exceed 4.6 V.
 [3] For SOT765-1 package: above 99 °C, the value of P<sub>tot</sub> derates linearly with 4.9 mW/K.
 [4] For SOT833-1 package: above 68 °C, the value of P<sub>tot</sub> derates linearly with 3.1 mW/K.

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

Table 6. Recommended operating conditions

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		0.8	3.6	V
VI	input voltage		0	3.6	V
Vo	output voltage	OE = LOW	0	V <sub>CC</sub>	V
		OE = HIGH	0	3.6	V
T <sub>amb</sub>	ambient temperature		-40	+125	°C
Δt/ΔV	input transition rise and fall rate	V <sub>CC</sub> = 0.8 V to 3.6 V	0	200	ns/V

### 10 Static characteristics

#### **Table 7. Static characteristics**

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

Symbol	Parameter	Conditions	Т	T <sub>amb</sub> = 25 °C			
			Min	Тур	Max	V V μA kΩ pF	
V <sub>OH</sub>	HIGH-level output voltage	$V_{I} = V_{IH}$ or $V_{IL}$					
		$I_{O}$ = -1.5 mA; $V_{CC}$ = 0.8 V	-	0.69	-	V	
V <sub>OL</sub>	LOW-level output voltage	$V_{I} = V_{IH}$ or $V_{IL}$					
		$I_{O}$ = 1.5 mA; $V_{CC}$ = 0.8 V	-	0.07	-	V	
lı	input leakage current	A, <del>OE</del> input; V <sub>I</sub> = 0 V or 3.6 V; V <sub>CC</sub> = 0.8 V to 3.6 V	-	±0.025	±0.25	μΑ	
I <sub>OFF</sub>	power-off leakage current	$V_I$ or $V_O$ = 0 V to 3.6 V; $V_{CC}$ = 0 V	-	±0.1	±1	μΑ	
R <sub>pd</sub>	pull-down resistance		-	50	-	kΩ	
C <sub>I</sub>	input capacitance	A, <del>OE</del> input; V <sub>I</sub> = 0 V or 3.3 V; V <sub>CC</sub> = 3.3 V	-	1.2	-	pF	
Co	output capacitance	Yn; $V_O = 3.3 \text{ V or } 0 \text{ V}$ ; $V_{CC} = 3.3 \text{ V}$	-	4.7	-	pF	

#### **Table 8. 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	Max	Min	Max	
V <sub>IH</sub>	HIGH-level input	A, OE input					
	voltage	V <sub>CC</sub> = 0.8 V	0.70V <sub>CC</sub>	-	0.70V <sub>CC</sub>	-	V
		V <sub>CC</sub> = 1.1 V to 1.95 V	0.65V <sub>CC</sub>	-	0.65V <sub>CC</sub>	-	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.6	-	1.6	-	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	2	-	2	-	V
V <sub>IL</sub>	LOW-level input	A, <del>OE</del> input					
	voltage	V <sub>CC</sub> = 0.8 V	-	0.30V <sub>CC</sub>	-	0.30V <sub>CC</sub>	V
		V <sub>CC</sub> = 1.1 V to 1.95 V	-	0.35V <sub>CC</sub>	-	0.35V <sub>CC</sub>	V
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	0.7	-	0.7	V
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	0.8	-	0.8	V
V <sub>OH</sub>	HIGH-level	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>					
	output voltage	I <sub>O</sub> = -100 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	V <sub>CC</sub> - 0.1	-	V <sub>CC</sub> - 0.1	-	V
		$I_{O}$ = -3 mA; $V_{CC}$ = 1.1 V	0.85	-	0.85	-	V
		I <sub>O</sub> = -6 mA; V <sub>CC</sub> = 1.4 V	1.05	-	1.05	-	V
		I <sub>O</sub> = -8 mA; V <sub>CC</sub> = 1.65 V	1.2	-	1.2	-	V
		$I_{O}$ = -9 mA; $V_{CC}$ = 2.3 V	1.75	-	1.75	-	V
		$I_O = -12 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.3	-	2.3	-	V

74AVC9112

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Nexperia 74AVC9112

1-to-4 fan-out buffer

Symbol	Parameter	Conditions	T <sub>amb</sub> = -40 °	C to +85 °C	T <sub>amb</sub> = -40 °C	C to +125 °C	Unit
			Min	Max	Min	Max	
$V_{OL}$	LOW-level	$V_I = V_{IH}$ or $V_{IL}$					
C	output voltage	I <sub>O</sub> = 100 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	-	0.1	-	0.1	V
		I <sub>O</sub> = 3 mA; V <sub>CC</sub> = 1.1 V	-	0.25	-	0.25	V
		I <sub>O</sub> = 6 mA; V <sub>CC</sub> = 1.4 V	-	0.35	-	0.35	V
		I <sub>O</sub> = 8 mA; V <sub>CC</sub> = 1.65 V	-	0.45	-	0.45	V
		I <sub>O</sub> = 9 mA; V <sub>CC</sub> = 2.3 V	-	0.55	-	0.55	V
		$I_{O}$ = 12 mA; $V_{CC}$ = 3.0 V	-	0.7	-	0.7	V
l <sub>l</sub>	input leakage current	A, OE input; V <sub>I</sub> = 0 V or 3.6 V; V <sub>CC</sub> = 0.8 V to 3.6 V	-	±1	-	±5	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	±5	-	±30	μΑ
I <sub>CC</sub>	supply current	V <sub>I</sub> = 0 V or V <sub>CC</sub> ; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 0.8 V to 3.6 V	-	8	-	50	μA

# 11 Dynamic characteristics

Table 9. Typical dynamic characteristics [1]

Voltages are referenced to GND (ground = 0 V); for test circuit, see Figure 6; for waveforms, see Figure 4 and Figure 5.

Symbol	Parameter	Conditions	$T_{amb} = 25  ^{\circ}C;  V_{CC} = 0.8  V$	Unit
t <sub>pd</sub>	propagation delay	A to Yn	31	ns
t <sub>dis</sub>	disable time	OE to Yn	25	ns
t <sub>en</sub>	enable time	OE to Yn	36	ns

 $<sup>\</sup>begin{aligned} [1] & t_{pd} \text{ is the same as } t_{PLH} \text{ and } t_{PHL}; \\ & t_{dis} \text{ is the same as } t_{PLZ} \text{ and } t_{PHZ}; \\ & t_{en} \text{ is the same as } t_{pZL} \text{ and } t_{PZH}. \end{aligned}$ 

Table 10. Dynamic characteristics [1]

Voltages are referenced to GND (ground = 0 V); for test circuit, see Figure 6; for waveforms, see Figure 4 and Figure 5.

Symbol	Parameter	Conditions					V	СС					Unit
			1.2 V:	±0.1 V	1.5 V:	±0.1 V	1.8 V±	:0.15 V	2.5 V:	±0.2 V	3.3 V	±0.3 V	
			Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
T <sub>amb</sub> = -4	0 °C to +85 °C	3	-	<u> </u>				<u> </u>	-		-	<u>'</u>	
t <sub>pd</sub>	propagation delay	A to Yn	0.9	14.7	0.7	9.5	0.6	7.6	0.5	5.4	0.4	4.4	ns
t <sub>dis</sub>	disable time	OE to Yn	1.0	14.7	8.0	9.7	0.8	8.8	0.6	6.5	0.7	6.9	ns
t <sub>en</sub>	enable time	OE to Yn	1.0	15.8	0.7	9.9	0.6	7.9	0.5	5.5	0.5	4.5	ns
t <sub>sk(o)</sub>	output skew time	between any output	-	0.7	-	0.4	-	0.3	-	0.2	-	0.2	ns
T <sub>amb</sub> = -4	0 °C to +125 °	°C				·							
t <sub>pd</sub>	propagation delay	A to Yn	0.9	15.7	0.7	10.4	0.6	8.3	0.5	5.9	0.4	4.9	ns
t <sub>dis</sub>	disable time	OE to Yn	1.0	16.5	0.8	11.0	0.8	10.0	0.6	7.5	0.7	7.7	ns
t <sub>en</sub>	enable time	OE to Yn	1.0	16.9	0.7	10.9	0.6	8.7	0.6	6.1	0.5	4.9	ns
t <sub>sk(o)</sub>	output skew time	between any output	-	0.9	-	0.5	-	0.4	-	0.3	-	0.2	ns

<sup>[1]</sup>  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ ;

Table 11. Typical power dissipation capacitance at  $T_{amb}$  = 25 °C [1] [2]

Symbol	Parameter	Conditions		V <sub>cc</sub>				Unit	
			0.8 V	1.2 V	1.5 V	1.8 V	2.5 V	3.3 V	
C <sub>PD</sub>	power dissipation	Yn; outputs enabled	35	35	36	37	40	45	pF
	capacitance	Yn; outputs disabled	2.0	2.2	2.3	2.4	2.6	2.7	pF

<sup>[1]</sup>  $\,C_{PD}$  is used to determine the dynamic power dissipation (P<sub>D</sub> in  $\mu$ W).

 $P_D = C_{PD} \times V_{CC}^2 \times f_i + \Sigma (C_L \times V_{CC}^2 \times f_o)$  where:  $f_i$  = input frequency in MHz;

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

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

 $V_{CC}$  = supply voltage in V;  $\Sigma(C_L \times V_{CC}^2 \times f_0)$  = sum of the outputs. [2]  $f_i$  = 10 MHz;

 $V_I = GND \text{ to } V_{CC};$ 

 $t_r = t_f = 1 \text{ ns};$ 

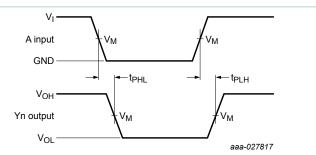
 $C_L = 0 pF;$ 

 $R_L = \infty \Omega$ .

 $t_{\text{dis}}$  is the same as  $t_{\text{PLZ}}$  and  $t_{\text{PHZ}}$ ;

 $t_{\text{en}}$  is the same as  $t_{\text{PZL}}$  and  $t_{\text{PZH}}.$ 

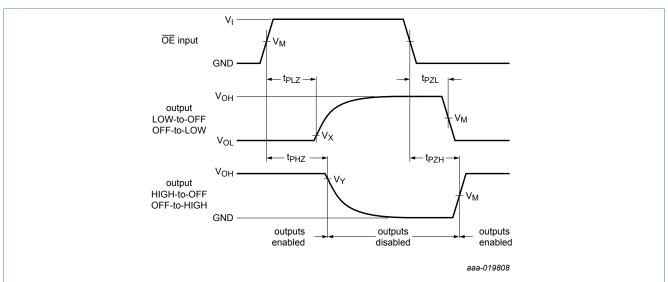
### 11.1 Waveforms and test circuit



Measurement points are given in Table 12.

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

Figure 4. The data input (A) to output (Yn) propagation delay times



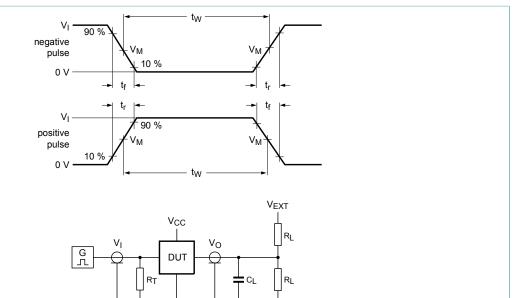
Measurement points are given in Table 12.

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

Figure 5. Enable and disable times

Table 12. Measurement points

Supply voltage	Input	Output			
V <sub>CC</sub>	V <sub>M</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>	
0.8 V to 1.6 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.1 V	V <sub>OH</sub> - 0.1 V	
1.65 V to 2.7 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V	
3.0 V to 3.6 V	0.5V <sub>CC</sub>	0.5V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V	



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Test data is given in Table 13

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

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

 $R_T$  = Termination resistance.

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

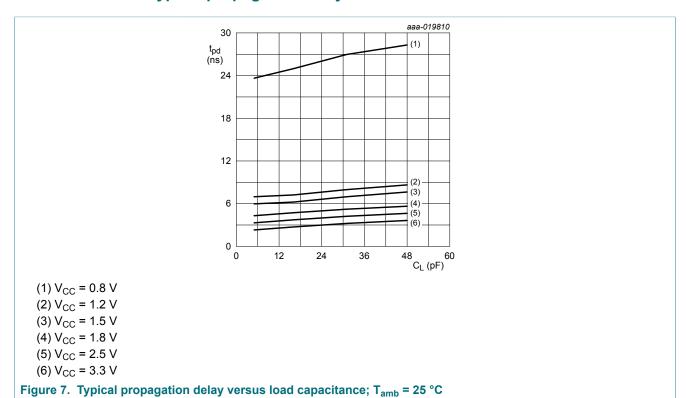
Figure 6. Test circuit for measuring switching times

Table 13. Test data

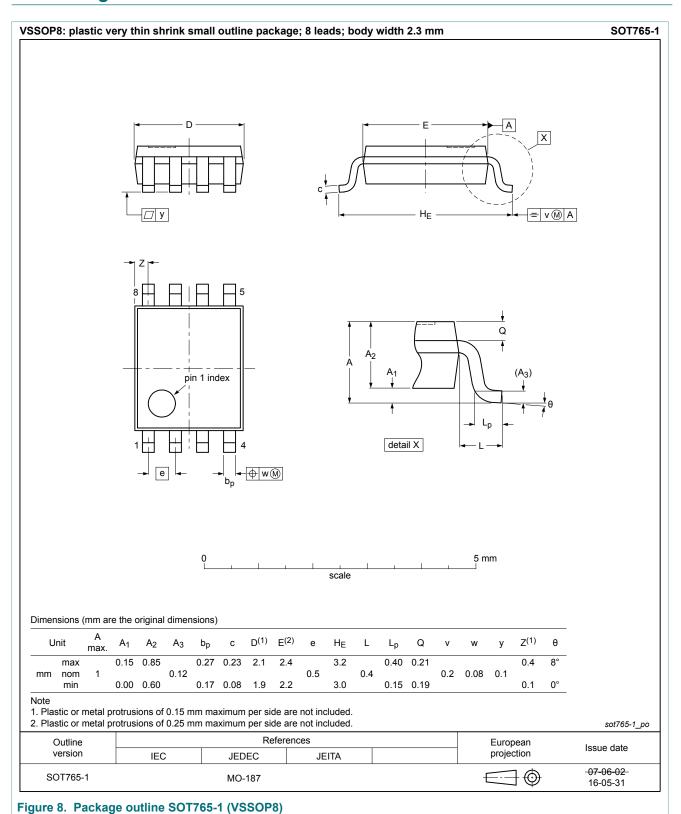
Supply voltage	Input		Load		V <sub>EXT</sub>		
V <sub>CC</sub>	VI	$\Delta t/\Delta V^{[1]}$	CL	R <sub>L</sub>	t <sub>PLH</sub> , t <sub>PHL</sub>	t <sub>PZH</sub> , t <sub>PHZ</sub>	t <sub>PZL</sub> , t <sub>PLZ</sub>
0.8 V to 1.6 V	V <sub>CC</sub>	≤ 1.0 ns/V	15 pF	2 kΩ	open	GND	2V <sub>CC</sub>
1.65 V to 2.7 V	V <sub>CC</sub>	≤ 1.0 ns/V	15 pF	2 kΩ	open	GND	2V <sub>CC</sub>
3.0 V to 3.6 V	V <sub>CC</sub>	≤ 1.0 ns/V	15 pF	2 kΩ	open	GND	2V <sub>CC</sub>

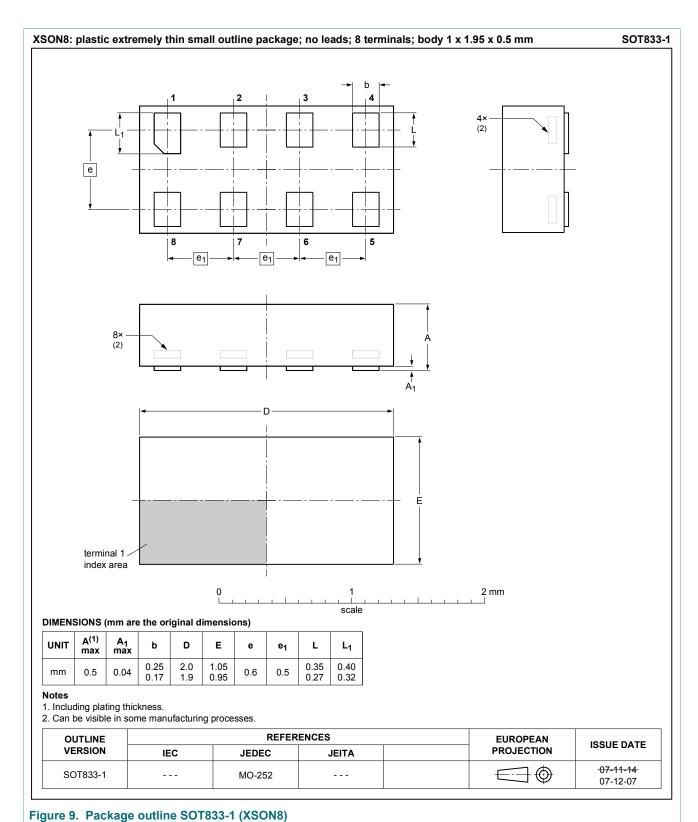
[1] dV/dt ≥ 1.0 V/ns

## 11.2 Typical propagation delay characteristics



## 12 Package outline





## 13 Abbreviations

### Table 14. Abbreviations

Acronym	Description
CDM	Charged Device Model
DUT	Device Under Test
ESD	ElectroStatic Discharge
НВМ	Human Body Model

# 14 Revision history

#### Table 15. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AVC9112 v.1	20180423	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.
- The term 'short data sheet' is explained in section "Definitions". [2] [3]
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Nexperia 74AVC9112

#### 1-to-4 fan-out buffer

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