



**THE DATASHEET OF  
74AUP2G241GN,115**



# 74AUP2G241

Low-power dual buffer/line driver; 3-state

Rev. 10 — 27 July 2023

Product data sheet

## 1. General description

The 74AUP2G241 provides a dual non-inverting buffer/line driver with 3-state outputs. The 3-state outputs are controlled by the output enable inputs  $1\overline{OE}$  and 2OE. A HIGH level at pin  $1\overline{OE}$  causes output 1Y to assume a high-impedance OFF-state. A LOW level at pin 2OE causes output 2Y to assume a high-impedance OFF-state.

Schmitt trigger action at all inputs makes the circuit tolerant to slower input rise and fall times across the entire  $V_{CC}$  range from 0.8 V to 3.6 V.

This device ensures a very low static and dynamic power consumption across the entire  $V_{CC}$  range from 0.8 V to 3.6 V.

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.

This device has an input-disable feature, which allows floating input signals. The input 1A is disabled when the output enable input  $1\overline{OE}$  is HIGH. The input 2A is disabled when the output enable input 2OE is LOW.

## 2. Features and benefits

- Wide supply voltage range from 0.8 V to 3.6 V
- High noise immunity
- 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)
- Low static power consumption;  $I_{CC} = 0.9 \mu\text{A}$  (maximum)
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of  $V_{CC}$
- Input-disable feature allows floating input conditions
- $I_{OFF}$  circuitry provides partial Power-down mode operation
- ESD protection:
  - HBM: ANSI/ESDA/JEDEC JS-001 class 3A exceeds 5000 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
<a href="#">74AUP2G241DC</a>	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	<a href="#">SOT765-1</a>
<a href="#">74AUP2G241GT</a>	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	<a href="#">SOT833-1</a>
<a href="#">74AUP2G241GN</a>	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	<a href="#">SOT1116</a>
<a href="#">74AUP2G241GS</a>	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	<a href="#">SOT1203</a>

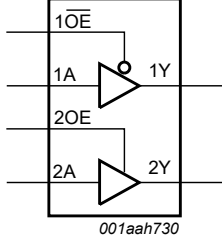
### 4. Marking

Table 2. Marking codes

Type number	Marking code[1]
74AUP2G241DC	p41
74AUP2G241GT	p41
74AUP2G241GN	p1
74AUP2G241GS	p1

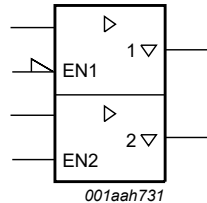
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

### 5. Functional diagram



001aah730

**Fig. 1. Logic symbol**



001aah731

**Fig. 2. IEC logic symbol**

## 6. Pinning information

### 6.1. Pinning

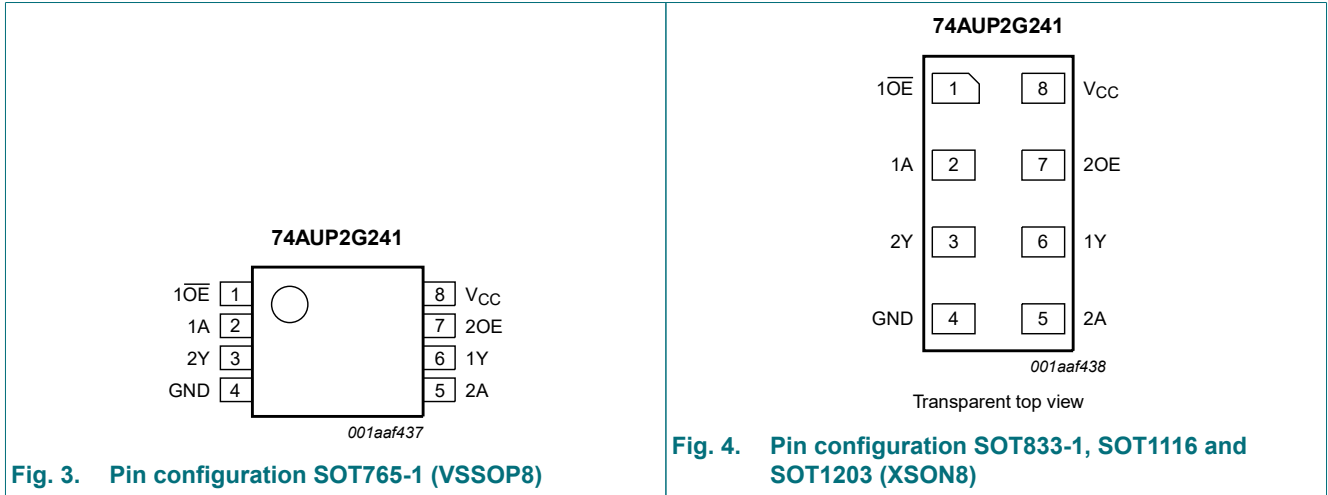


Fig. 3. Pin configuration SOT765-1 (VSSOP8)

Fig. 4. Pin configuration SOT833-1, SOT1116 and SOT1203 (XSON8)

### 6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
1OE	1	output enable input 1OE (active LOW)
1A, 2A	2, 5	data input
1Y, 2Y	6, 3	data output
GND	4	ground (0 V)
2OE	7	output enable input 2OE (active HIGH)
V <sub>CC</sub>	8	supply voltage

## 7. Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

Input		Output	Input		Output
1OE	1A	1Y	2OE	2A	2Y
L	L	L	H	L	L
L	H	H	H	H	H
H	X	Z	L	X	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
$V_{CC}$	supply voltage		-0.5	+4.6	V
$I_{IK}$	input clamping current	$V_I < 0$ V	-50	-	mA
$V_I$	input voltage	[1]	-0.5	+4.6	V
$I_{OK}$	output clamping current	$V_O < 0$ V	-50	-	mA
$V_O$	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
$I_O$	output current	$V_O = 0$ V to $V_{CC}$	-	±20	mA
$I_{CC}$	supply current		-	+50	mA
$I_{GND}$	ground current		-50	-	mA
$T_{stg}$	storage temperature		-65	+150	°C
$P_{tot}$	total power dissipation	$T_{amb} = -40$ °C to $+125$ °C [2]	-	250	mW

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

[2] For SOT765-1 (VSSOP8) package:  $P_{tot}$  derates linearly with 4.9 mW/K above 99 °C.

For SOT833-1 (XSON8) package:  $P_{tot}$  derates linearly with 3.1 mW/K above 68 °C.

For SOT1116 (XSON8) package:  $P_{tot}$  derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package:  $P_{tot}$  derates linearly with 3.6 mW/K above 81 °C.

## 9. Recommended operating conditions

**Table 6. Operating conditions**

Symbol	Parameter	Conditions	Min	Max	Unit
$V_{CC}$	supply voltage		0.8	3.6	V
$V_I$	input voltage		0	3.6	V
$V_O$	output voltage	Active mode	0	$V_{CC}$	V
		Power-down mode; $V_{CC} = 0$ V	0	3.6	V
$T_{amb}$	ambient temperature		-40	+125	°C
$\Delta t/\Delta V$	input transition rise and fall rate	$V_{CC} = 0.8$ 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	Min	Typ	Max	Unit
$T_{amb} = 25$ °C						
$V_{IH}$	HIGH-level input voltage	$V_{CC} = 0.8$ V	$0.70V_{CC}$	-	-	V
		$V_{CC} = 0.9$ V to 1.95 V	$0.65V_{CC}$	-	-	V
		$V_{CC} = 2.3$ V to 2.7 V	1.6	-	-	V
		$V_{CC} = 3.0$ V to 3.6 V	2.0	-	-	V
$V_{IL}$	LOW-level input voltage	$V_{CC} = 0.8$ V	-	-	$0.30V_{CC}$	V
		$V_{CC} = 0.9$ V to 1.95 V	-	-	$0.35V_{CC}$	V
		$V_{CC} = 2.3$ V to 2.7 V	-	-	0.7	V
		$V_{CC} = 3.0$ V to 3.6 V	-	-	0.9	V

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>					
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	V <sub>CC</sub> - 0.1	-	-	V	
		I <sub>O</sub> = -1.1 mA; V <sub>CC</sub> = 1.1 V	0.75V <sub>CC</sub>	-	-	V	
		I <sub>O</sub> = -1.7 mA; V <sub>CC</sub> = 1.4 V	1.11	-	-	V	
		I <sub>O</sub> = -1.9 mA; V <sub>CC</sub> = 1.65 V	1.32	-	-	V	
		I <sub>O</sub> = -2.3 mA; V <sub>CC</sub> = 2.3 V	2.05	-	-	V	
		I <sub>O</sub> = -3.1 mA; V <sub>CC</sub> = 2.3 V	1.9	-	-	V	
		I <sub>O</sub> = -2.7 mA; V <sub>CC</sub> = 3.0 V	2.72	-	-	V	
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.6	-	-	V	
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>					
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	0.1	V	
		I <sub>O</sub> = 1.1 mA; V <sub>CC</sub> = 1.1 V	-	-	0.3V <sub>CC</sub>	V	
		I <sub>O</sub> = 1.7 mA; V <sub>CC</sub> = 1.4 V	-	-	0.31	V	
		I <sub>O</sub> = 1.9 mA; V <sub>CC</sub> = 1.65 V	-	-	0.31	V	
		I <sub>O</sub> = 2.3 mA; V <sub>CC</sub> = 2.3 V	-	-	0.31	V	
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.44	V	
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.31	V	
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.44	V	
I <sub>I</sub>	input leakage current	V <sub>I</sub> = GND to 3.6 V; V <sub>CC</sub> = 0 V to 3.6 V	-	-	±0.1	μA	
I <sub>OZ</sub>	OFF-state output current	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 3.6 V	-	-	±0.1	μA	
I <sub>OFF</sub>	power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V	-	-	±0.2	μA	
ΔI <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.2	μA	
I <sub>CC</sub>	supply current	V <sub>I</sub> = GND or V <sub>CC</sub> ; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	0.5	μA	
ΔI <sub>CC</sub>	additional supply current	data input; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	[1]	-	-	40	μA
		1OE and 2OE input; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	[1]	-	-	110	μA
		all inputs; V <sub>I</sub> = GND to 3.6 V; 1OE = V <sub>CC</sub> ; 2OE = GND; V <sub>CC</sub> = 0.8 V to 3.6 V	[2]	-	-	1	μA
C <sub>I</sub>	input capacitance	V <sub>CC</sub> = 0 V to 3.6 V; V <sub>I</sub> = GND or V <sub>CC</sub>	-	0.6	-	pF	
C <sub>O</sub>	output capacitance	output enabled; V <sub>O</sub> = GND; V <sub>CC</sub> = 0 V	-	1.7	-	pF	
		output disabled; V <sub>CC</sub> = 0 V to 3.6 V; V <sub>O</sub> = GND or V <sub>CC</sub>	-	1.5	-	pF	
<b>T<sub>amb</sub> = -40 °C to +85 °C</b>							
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V	0.70V <sub>CC</sub>	-	-	V	
		V <sub>CC</sub> = 0.9 V to 1.95 V	0.65V <sub>CC</sub>	-	-	V	
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.6	-	-	V	
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	-	-	V	
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 0.8 V	-	-	0.30V <sub>CC</sub>	V	
		V <sub>CC</sub> = 0.9 V to 1.95 V	-	-	0.35V <sub>CC</sub>	V	
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	V	
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	-	0.9	V	

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>					
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	V <sub>CC</sub> - 0.1	-	-	V	
		I <sub>O</sub> = -1.1 mA; V <sub>CC</sub> = 1.1 V	0.7V <sub>CC</sub>	-	-	V	
		I <sub>O</sub> = -1.7 mA; V <sub>CC</sub> = 1.4 V	1.03	-	-	V	
		I <sub>O</sub> = -1.9 mA; V <sub>CC</sub> = 1.65 V	1.30	-	-	V	
		I <sub>O</sub> = -2.3 mA; V <sub>CC</sub> = 2.3 V	1.97	-	-	V	
		I <sub>O</sub> = -3.1 mA; V <sub>CC</sub> = 2.3 V	1.85	-	-	V	
		I <sub>O</sub> = -2.7 mA; V <sub>CC</sub> = 3.0 V	2.67	-	-	V	
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.55	-	-	V	
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>					
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	0.1	V	
		I <sub>O</sub> = 1.1 mA; V <sub>CC</sub> = 1.1 V	-	-	0.3V <sub>CC</sub>	V	
		I <sub>O</sub> = 1.7 mA; V <sub>CC</sub> = 1.4 V	-	-	0.37	V	
		I <sub>O</sub> = 1.9 mA; V <sub>CC</sub> = 1.65 V	-	-	0.35	V	
		I <sub>O</sub> = 2.3 mA; V <sub>CC</sub> = 2.3 V	-	-	0.33	V	
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.45	V	
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.33	V	
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.45	V	
I <sub>I</sub>	input leakage current	V <sub>I</sub> = GND to 3.6 V; V <sub>CC</sub> = 0 V to 3.6 V	-	-	±0.5	μA	
I <sub>OFF</sub>	power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V	-	-	±0.5	μA	
I <sub>OZ</sub>	OFF-state output current	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 3.6 V	-	-	±0.5	μA	
ΔI <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.6	μA	
I <sub>CC</sub>	supply current	V <sub>I</sub> = GND or V <sub>CC</sub> ; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	0.9	μA	
ΔI <sub>CC</sub>	additional supply current	data input; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	[1]	-	-	50	μA
		1 $\overline{O}E$ and 2 $\overline{O}E$ input; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	[1]	-	-	120	μA
		all inputs; V <sub>I</sub> = GND to 3.6 V; 1 $\overline{O}E$ = V <sub>CC</sub> ; 2 $\overline{O}E$ = GND; V <sub>CC</sub> = 0.8 V to 3.6 V	[2]	-	-	1	μA
<b>T<sub>amb</sub> = -40 °C to +125 °C</b>							
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V	0.75V <sub>CC</sub>	-	-	V	
		V <sub>CC</sub> = 0.9 V to 1.95 V	0.70V <sub>CC</sub>	-	-	V	
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.6	-	-	V	
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	-	-	V	
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 0.8 V	-	-	0.25V <sub>CC</sub>	V	
		V <sub>CC</sub> = 0.9 V to 1.95 V	-	-	0.30V <sub>CC</sub>	V	
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	V	
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	-	0.9	V	

Symbol	Parameter	Conditions	Min	Typ	Max	Unit	
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>					
		I <sub>O</sub> = -20 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	V <sub>CC</sub> - 0.11	-	-	V	
		I <sub>O</sub> = -1.1 mA; V <sub>CC</sub> = 1.1 V	0.6V <sub>CC</sub>	-	-	V	
		I <sub>O</sub> = -1.7 mA; V <sub>CC</sub> = 1.4 V	0.93	-	-	V	
		I <sub>O</sub> = -1.9 mA; V <sub>CC</sub> = 1.65 V	1.17	-	-	V	
		I <sub>O</sub> = -2.3 mA; V <sub>CC</sub> = 2.3 V	1.77	-	-	V	
		I <sub>O</sub> = -3.1 mA; V <sub>CC</sub> = 2.3 V	1.67	-	-	V	
		I <sub>O</sub> = -2.7 mA; V <sub>CC</sub> = 3.0 V	2.40	-	-	V	
		I <sub>O</sub> = -4.0 mA; V <sub>CC</sub> = 3.0 V	2.30	-	-	V	
V <sub>OL</sub>	LOW-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>					
		I <sub>O</sub> = 20 μA; V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	0.11	V	
		I <sub>O</sub> = 1.1 mA; V <sub>CC</sub> = 1.1 V	-	-	0.33V <sub>CC</sub>	V	
		I <sub>O</sub> = 1.7 mA; V <sub>CC</sub> = 1.4 V	-	-	0.41	V	
		I <sub>O</sub> = 1.9 mA; V <sub>CC</sub> = 1.65 V	-	-	0.39	V	
		I <sub>O</sub> = 2.3 mA; V <sub>CC</sub> = 2.3 V	-	-	0.36	V	
		I <sub>O</sub> = 3.1 mA; V <sub>CC</sub> = 2.3 V	-	-	0.50	V	
		I <sub>O</sub> = 2.7 mA; V <sub>CC</sub> = 3.0 V	-	-	0.36	V	
		I <sub>O</sub> = 4.0 mA; V <sub>CC</sub> = 3.0 V	-	-	0.50	V	
I <sub>I</sub>	input leakage current	V <sub>I</sub> = GND to 3.6 V; V <sub>CC</sub> = 0 V to 3.6 V	-	-	±0.75	μA	
I <sub>OZ</sub>	OFF-state output current	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub> ; V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 3.6 V	-	-	±0.75	μA	
I <sub>OFF</sub>	power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V	-	-	±0.75	μA	
ΔI <sub>OFF</sub>	additional power-off leakage current	V <sub>I</sub> or V <sub>O</sub> = 0 V to 3.6 V; V <sub>CC</sub> = 0 V to 0.2 V	-	-	±0.75	μA	
I <sub>CC</sub>	supply current	V <sub>I</sub> = GND or V <sub>CC</sub> ; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	1.4	μA	
ΔI <sub>CC</sub>	additional supply current	data input; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	[1]	-	-	75	μA
		1 $\overline{O}E$ and 2 $\overline{O}E$ input; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	[1]	-	-	180	μA
		all inputs; V <sub>I</sub> = GND to 3.6 V; 1 $\overline{O}E$ = V <sub>CC</sub> ; 2 $\overline{O}E$ = GND; V <sub>CC</sub> = 0.8 V to 3.6 V	[2]	-	-	1	μA

[1] One input at V<sub>CC</sub> - 0.6 V, other input at V<sub>CC</sub> or GND.

[2] To show I<sub>CC</sub> remains very low when the input-disable feature is enabled.

## 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> = 25 °C			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	Min	Max			
<b>C<sub>L</sub> = 5 pF</b>												
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 5 [2]										
		V <sub>CC</sub> = 0.8 V	-	20.6	-	-	-	-	-	ns		
		V <sub>CC</sub> = 1.1 V to 1.3 V	2.8	5.5	10.5	2.5	11.7	2.5	12.9	ns		
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	3.9	6.1	2.0	7.3	2.0	8.1	ns		
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.9	3.2	4.8	1.7	6.1	1.7	6.7	ns		
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.6	2.6	3.6	1.4	4.3	1.4	4.9	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.4	2.4	3.1	1.2	3.9	1.2	4.4	ns		
t <sub>en</sub>	enable time	1OE to 1Y; see Fig. 6 [3]										
		V <sub>CC</sub> = 0.8 V	-	69.9	-	-	-	-	-	ns		
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.1	6.1	11.8	2.9	13.9	2.9	15.4	ns		
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.5	4.2	6.6	2.3	7.7	2.3	8.3	ns		
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	3.4	5.1	2.0	6.2	2.0	6.8	ns		
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.8	2.6	3.7	1.7	4.5	1.7	5.0	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	2.4	3.1	1.7	3.5	1.7	3.9	ns		
				2OE to 2Y; see Fig. 7 [3]								
				V <sub>CC</sub> = 0.8 V	-	71.6	-	-	-	-	ns	
				V <sub>CC</sub> = 1.1 V to 1.3 V	2.8	6.2	12.4	2.6	13.6	2.6	13.6	ns
				V <sub>CC</sub> = 1.4 V to 1.6 V	2.3	4.2	6.9	2.2	7.4	2.2	7.7	ns
				V <sub>CC</sub> = 1.65 V to 1.95 V	1.9	3.3	5.3	1.7	5.9	1.7	6.2	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.5	2.4	3.6	1.4	3.8	1.4	4.1	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.3	2.0	2.9	1.2	3.2	1.2	3.4	ns		
t <sub>dis</sub>	disable time	1OE to 1Y; see Fig. 6 [4]										
		V <sub>CC</sub> = 0.8 V	-	14.3	-	-	-	-	-	ns		
		V <sub>CC</sub> = 1.1 V to 1.3 V	2.7	4.3	6.5	2.7	7.3	2.7	8.2	ns		
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.1	3.2	4.4	2.1	5.1	2.1	5.7	ns		
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.0	3.0	4.3	2.0	5.0	2.0	5.7	ns		
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.4	2.2	2.9	1.4	3.3	1.4	4.1	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	2.5	3.2	1.7	3.4	1.7	3.9	ns		
				2OE to 2Y; see Fig. 7 [4]								
				V <sub>CC</sub> = 0.8 V	-	10.3	-	-	-	-	ns	
				V <sub>CC</sub> = 1.1 V to 1.3 V	2.6	4.2	6.2	2.9	6.4	2.9	6.5	ns
				V <sub>CC</sub> = 1.4 V to 1.6 V	2.1	3.2	4.4	2.2	4.6	2.2	4.7	ns
				V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	3.1	4.4	1.7	4.6	1.7	4.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	2.4	3.2	1.4	3.4	1.4	3.6	ns		
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.1	2.8	3.6	1.2	3.7	1.2	3.8	ns		

Symbol	Parameter	Conditions	T <sub>amb</sub> = 25 °C			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	Min	Max	
<b>C<sub>L</sub> = 10 pF</b>										
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 5 [2]								
		V <sub>CC</sub> = 0.8 V	-	24.0	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.2	6.4	12.3	3.0	13.8	3.0	15.2	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.1	4.5	7.3	1.9	8.5	1.9	9.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.9	3.8	5.5	1.7	6.8	1.7	7.6	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.1	3.2	4.2	1.6	5.3	1.6	5.9	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.8	3.0	3.8	1.6	4.6	1.6	5.2	ns
t <sub>en</sub>	enable time	1OE to 1Y; see Fig. 6 [3]								
		V <sub>CC</sub> = 0.8 V	-	73.7	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.6	6.9	13.5	3.4	15.8	3.4	17.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.3	4.8	7.7	2.2	8.6	2.2	9.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.0	3.9	5.8	1.9	6.8	1.9	7.4	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.8	3.2	4.3	1.7	5.3	1.7	5.9	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	3.0	3.9	1.7	4.3	1.7	4.8	ns
		2OE to 2Y; see Fig. 7 [3]								
		V <sub>CC</sub> = 0.8 V	-	75.3	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.2	7.1	14.1	3.0	15.4	3.0	15.4	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	4.8	8.0	2.1	8.3	2.1	8.6	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.8	3.9	5.9	1.7	6.5	1.7	6.8	ns
t <sub>dis</sub>	disable time	1OE to 1Y; see Fig. 6 [4]								
		V <sub>CC</sub> = 0.8 V	-	32.7	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.4	5.4	7.9	3.4	8.8	3.4	9.9	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	4.1	5.5	2.2	6.2	2.2	7.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.2	4.2	5.6	1.9	6.3	1.9	7.1	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.7	3.0	3.8	1.7	4.5	1.7	5.1	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.1	3.8	4.8	1.7	5.0	1.7	5.6	ns
		2OE to 2Y; see Fig. 7 [4]								
		V <sub>CC</sub> = 0.8 V	-	12.2	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.5	5.3	7.6	3.3	7.9	3.3	7.9	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	4.1	5.6	2.1	5.7	2.1	5.9	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.4	4.2	5.7	1.7	5.8	1.7	6.0	ns
V <sub>CC</sub> = 2.3 V to 2.7 V	1.9	3.2	4.1	1.4	4.3	1.4	4.5	ns		
V <sub>CC</sub> = 3.0 V to 3.6 V	2.4	4.1	5.0	1.3	5.2	1.3	5.3	ns		

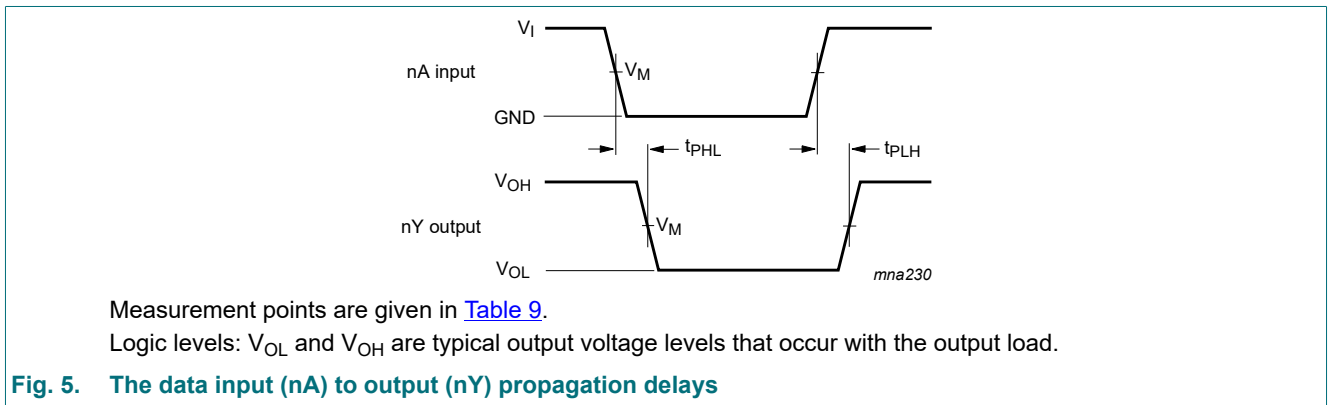
Symbol	Parameter	Conditions	T <sub>amb</sub> = 25 °C			T <sub>amb</sub> = -40 °C to +85 °C		T <sub>amb</sub> = -40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
<b>C<sub>L</sub> = 15 pF</b>										
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 5 [2]								
		V <sub>CC</sub> = 0.8 V	-	27.4	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.6	7.2	14.1	3.3	15.8	3.3	17.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.1	8.1	2.5	9.8	2.5	10.9	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.2	4.3	6.3	2.0	7.9	2.0	8.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.0	3.7	4.9	1.8	6.0	1.8	6.7	ns
t <sub>en</sub>	enable time	V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	3.5	4.4	1.8	5.4	1.8	6.1	ns
		1OE to 1Y; see Fig. 6 [3]								
		V <sub>CC</sub> = 0.8 V	-	77.5	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	4.0	7.7	15.2	3.7	17.6	3.7	19.6	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.3	8.4	2.5	9.8	2.5	10.7	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.3	4.4	6.5	2.1	7.7	2.1	8.5	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.1	3.6	5.0	2.0	6.1	2.0	6.8	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	3.5	4.5	1.9	4.9	1.9	5.5	ns
		2OE to 2Y; see Fig. 7 [3]								
		V <sub>CC</sub> = 0.8 V	-	79.2	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	3.6	7.8	15.8	3.3	17.1	3.3	17.1	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.4	8.8	2.9	9.4	2.9	9.7	ns
V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	4.3	6.7	2.0	7.3	2.0	7.7	ns		
V <sub>CC</sub> = 2.3 V to 2.7 V	1.8	3.4	4.8	1.7	5.2	1.7	5.6	ns		
V <sub>CC</sub> = 3.0 V to 3.6 V	1.6	3.1	4.3	1.5	4.5	1.5	4.7	ns		
t <sub>dis</sub>	disable time	1OE to 1Y; see Fig. 6 [4]								
		V <sub>CC</sub> = 0.8 V	-	60.8	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	4.3	6.5	9.2	3.7	10.3	3.7	11.6	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.0	6.5	2.5	7.4	2.5	8.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	5.3	6.6	2.1	7.4	2.1	8.9	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.1	3.8	4.9	2.0	5.1	2.0	6.4	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.9	5.0	6.2	1.9	6.6	1.9	7.4	ns
		2OE to 2Y; see Fig. 7 [4]								
		V <sub>CC</sub> = 0.8 V	-	14.9	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	4.3	6.4	8.5	3.7	9.3	3.7	9.4	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.0	6.6	2.5	6.9	2.5	7.0	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.1	5.4	6.6	2.0	7.4	2.0	7.5	ns
V <sub>CC</sub> = 2.3 V to 2.7 V	2.4	4.0	5.0	1.7	5.1	1.7	5.5	ns		
V <sub>CC</sub> = 3.0 V to 3.6 V	3.2	5.3	6.2	1.5	6.7	1.5	6.9	ns		

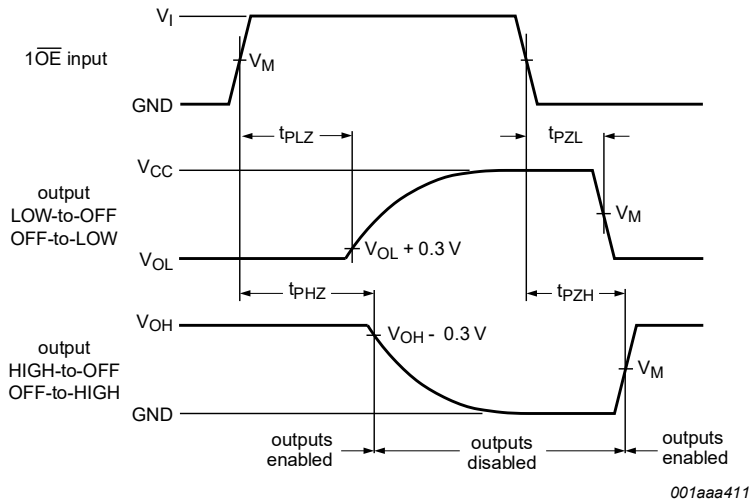
Symbol	Parameter	Conditions	T <sub>amb</sub> = 25 °C			T <sub>amb</sub> = -40 °C to +85 °C		T <sub>amb</sub> = -40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
<b>C<sub>L</sub> = 30 pF</b>										
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 5 [2]								
		V <sub>CC</sub> = 0.8 V	-	37.4	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	4.8	9.5	19.0	4.4	21.6	4.4	24.0	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.0	6.7	10.8	3.0	13.0	3.0	14.5	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.9	5.6	8.4	2.6	10.3	2.6	11.5	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.7	4.8	6.3	2.5	7.8	2.5	8.7	ns
t <sub>en</sub>	enable time	V <sub>CC</sub> = 3.0 V to 3.6 V	2.7	4.6	5.8	2.5	7.0	2.5	8.3	ns
		1OE to 1Y; see Fig. 6 [3]								
		V <sub>CC</sub> = 0.8 V	-	88.9	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	5.2	9.9	19.8	4.8	22.8	4.8	25.3	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.0	6.8	10.8	3.1	12.6	3.1	14.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	5.6	8.5	2.8	10.2	2.8	11.3	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	2.7	4.8	6.5	2.6	7.8	2.6	8.8	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.7	4.6	6.0	2.6	6.9	2.6	7.7	ns
		2OE to 2Y; see Fig. 7 [3]								
		V <sub>CC</sub> = 0.8 V	-	90.6	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	4.7	10.0	20.4	4.3	22.0	4.3	22.0	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	6.9	11.3	3.7	12.0	3.7	12.5	ns
V <sub>CC</sub> = 1.65 V to 1.95 V	2.6	5.6	8.6	3.2	9.5	3.2	10.1	ns		
V <sub>CC</sub> = 2.3 V to 2.7 V	2.3	4.5	6.3	2.9	6.8	2.9	7.3	ns		
V <sub>CC</sub> = 3.0 V to 3.6 V	2.2	4.2	5.8	2.7	6.4	2.7	6.7	ns		
t <sub>dis</sub>	disable time	1OE to 1Y; see Fig. 6 [4]								
		V <sub>CC</sub> = 0.8 V	-	49.9	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	6.0	9.9	13.3	4.8	14.8	4.8	16.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.4	7.7	9.6	3.1	10.7	3.1	12.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	5.1	8.7	11.1	2.8	12.4	2.8	13.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	3.6	6.2	7.4	2.6	8.6	2.6	9.6	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	5.2	8.7	10.5	2.6	10.8	2.6	13.1	ns
		2OE to 2Y; see Fig. 7 [4]								
		V <sub>CC</sub> = 0.8 V	-	51.6	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	6.0	9.8	13.6	4.7	14.3	4.7	14.4	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.5	7.7	10.5	3.0	10.7	3.0	11.0	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	5.2	8.8	11.4	2.6	11.5	2.6	11.6	ns
V <sub>CC</sub> = 2.3 V to 2.7 V	3.9	6.4	7.4	2.3	9.0	2.3	10.2	ns		
V <sub>CC</sub> = 3.0 V to 3.6 V	5.5	9.0	10.7	2.2	10.8	2.2	12.0	ns		

Symbol	Parameter	Conditions	T <sub>amb</sub> = 25 °C			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	Min	Max	
<b>C<sub>L</sub> = 5 pF, 10 pF, 15 pF and 30 pF</b>										
C <sub>PD</sub>	power dissipation capacitance	f = 1 MHz; V <sub>I</sub> = GND to V <sub>CC</sub> [5]								
		V <sub>CC</sub> = 0.8 V	-	2.8	-	-	-	-	-	pF
		V <sub>CC</sub> = 1.1 V to 1.3 V	-	2.8	-	-	-	-	-	pF
		V <sub>CC</sub> = 1.4 V to 1.6 V	-	3.0	-	-	-	-	-	pF
		V <sub>CC</sub> = 1.65 V to 1.95 V	-	3.0	-	-	-	-	-	pF
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	3.7	-	-	-	-	-	pF
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	4.2	-	-	-	-	-	pF

- [1] All typical values are measured at nominal V<sub>CC</sub>.
- [2] t<sub>pd</sub> is the same as t<sub>PLH</sub> and t<sub>PHL</sub>.
- [3] t<sub>en</sub> is the same as t<sub>PZH</sub> and t<sub>PZL</sub>.
- [4] t<sub>dis</sub> is the same as t<sub>PHZ</sub> and t<sub>PLZ</sub>.
- [5] C<sub>PD</sub> is used to determine the dynamic power dissipation (P<sub>D</sub> in μW).  
 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma(C_L \times V_{CC}^2 \times f_o)$  where:  
 f<sub>i</sub> = 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;  
 Σ(C<sub>L</sub> × V<sub>CC</sub><sup>2</sup> × f<sub>o</sub>) = sum of the outputs.

### 11.1. Waveforms and test circuit

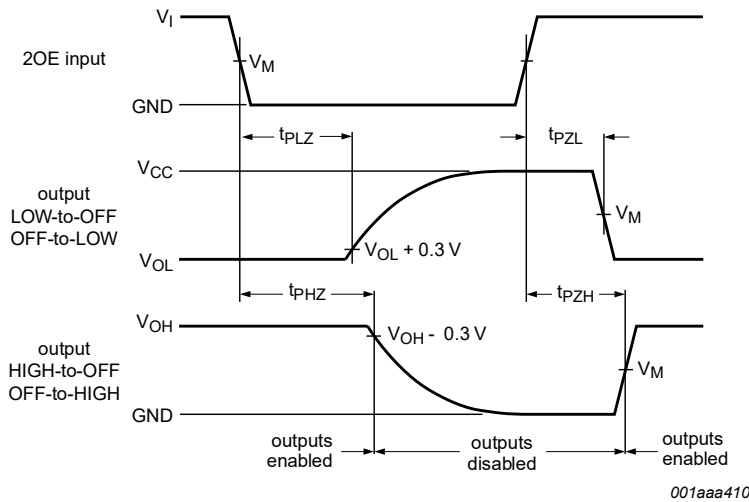




Measurement points are given in [Table 9](#).

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

**Fig. 6. 3-state enable and disable times**



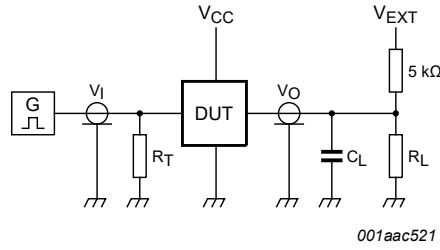
Measurement points are given in [Table 9](#).

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

**Fig. 7. 3-state enable and disable times**

**Table 9. Measurement points**

Supply voltage	Input			Output		
	$V_M$	$V_I$	$t_r = t_f$	$V_M$	$V_X$	$V_Y$
0.8 V to 1.6 V	$0.5 \times V_{CC}$	$V_{CC}$	$\leq 3.0$ ns	$0.5 \times V_{CC}$	$V_{OL} + 0.1$ V	$V_{OH} - 0.1$ V
1.65 V to 2.7 V	$0.5 \times V_{CC}$	$V_{CC}$	$\leq 3.0$ ns	$0.5 \times V_{CC}$	$V_{OL} + 0.15$ V	$V_{OH} - 0.15$ V
3.0 V to 3.6 V	$0.5 \times V_{CC}$	$V_{CC}$	$\leq 3.0$ ns	$0.5 \times V_{CC}$	$V_{OL} + 0.3$ V	$V_{OH} - 0.3$ V



Test data is given in [Table 10](#).

Definitions for test circuit:

$R_L$  = 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. 8. Test circuit for measuring switching times**

**Table 10. Test data**

Supply voltage	Load		$V_{EXT}$		
$V_{CC}$	$C_L$	$R_L$ [1]	$t_{PLH}$ , $t_{PHL}$	$t_{PZH}$ , $t_{PHZ}$	$t_{PZL}$ , $t_{PLZ}$
0.8 V to 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 kΩ or 1 MΩ	open	GND	$2 \times V_{CC}$

- [1] For measuring enable and disable times  $R_L = 5 \text{ k}\Omega$ .  
 For measuring propagation delays, setup and hold times and pulse width  $R_L = 1 \text{ M}\Omega$ .

## 12. Package outline

VSSOP8: plastic very thin shrink small outline package; 8 leads; body width 2.3 mm

SOT765-1

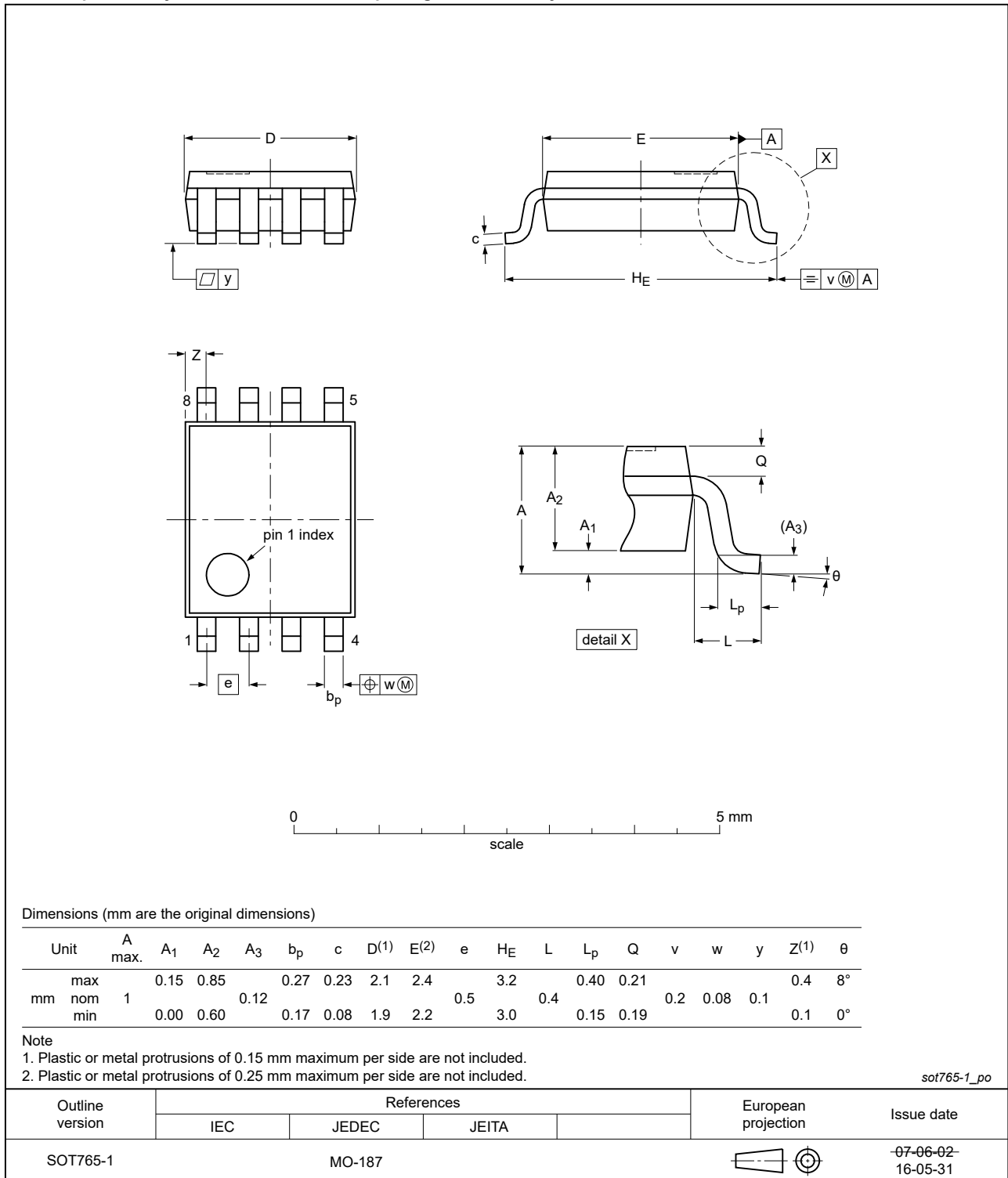


Fig. 9. Package outline SOT765-1 (VSSOP8)

XSON8: plastic extremely thin small outline package; no leads; 8 terminals; body 1 x 1.95 x 0.5 mm

SOT833-1

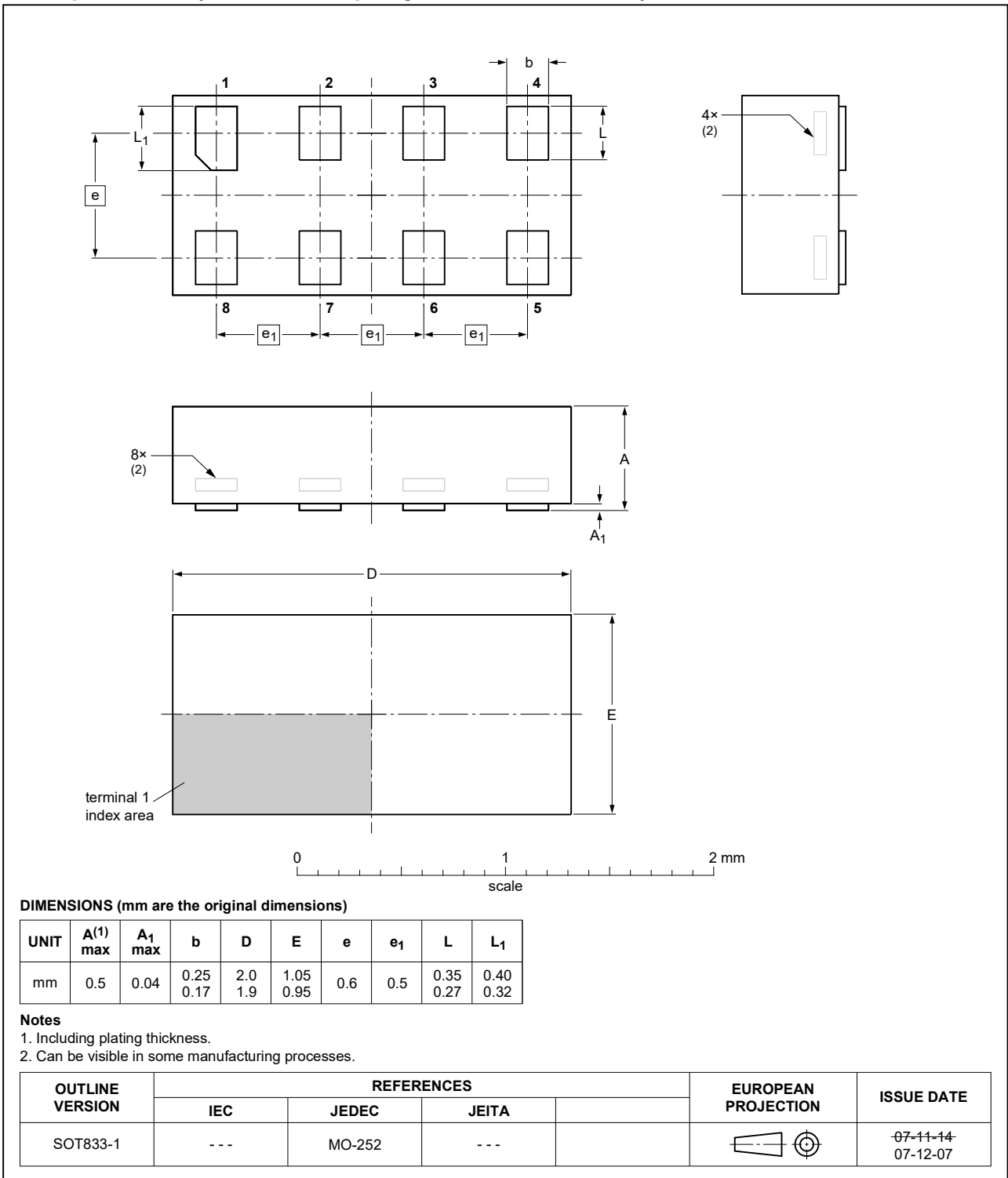


Fig. 10. Package outline SOT833-1 (XSON8)

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

SOT1116

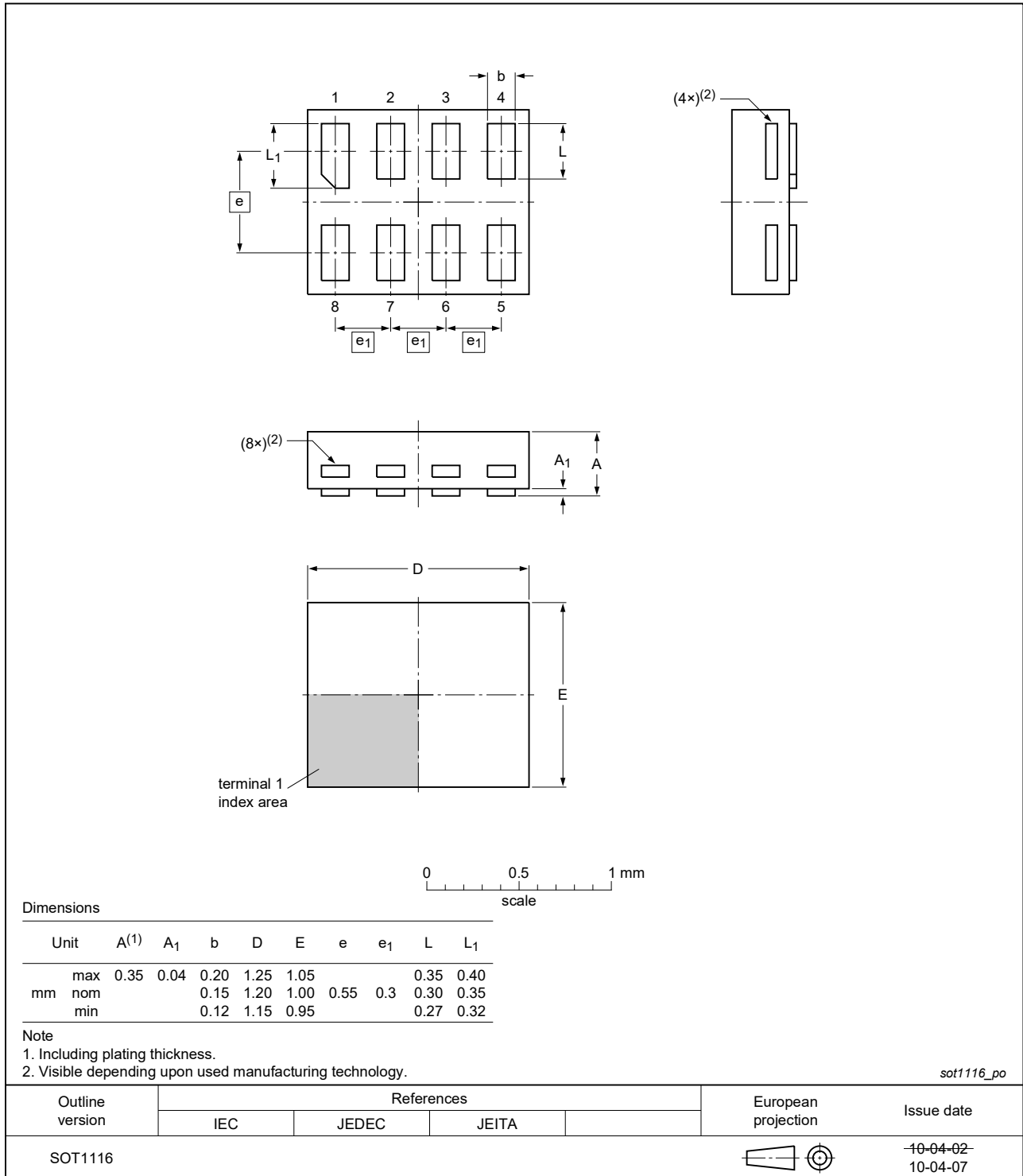


Fig. 11. Package outline SOT1116 (XSON8)

XSON8: extremely thin small outline package; no leads;  
8 terminals; body 1.35 x 1.0 x 0.35 mm

SOT1203

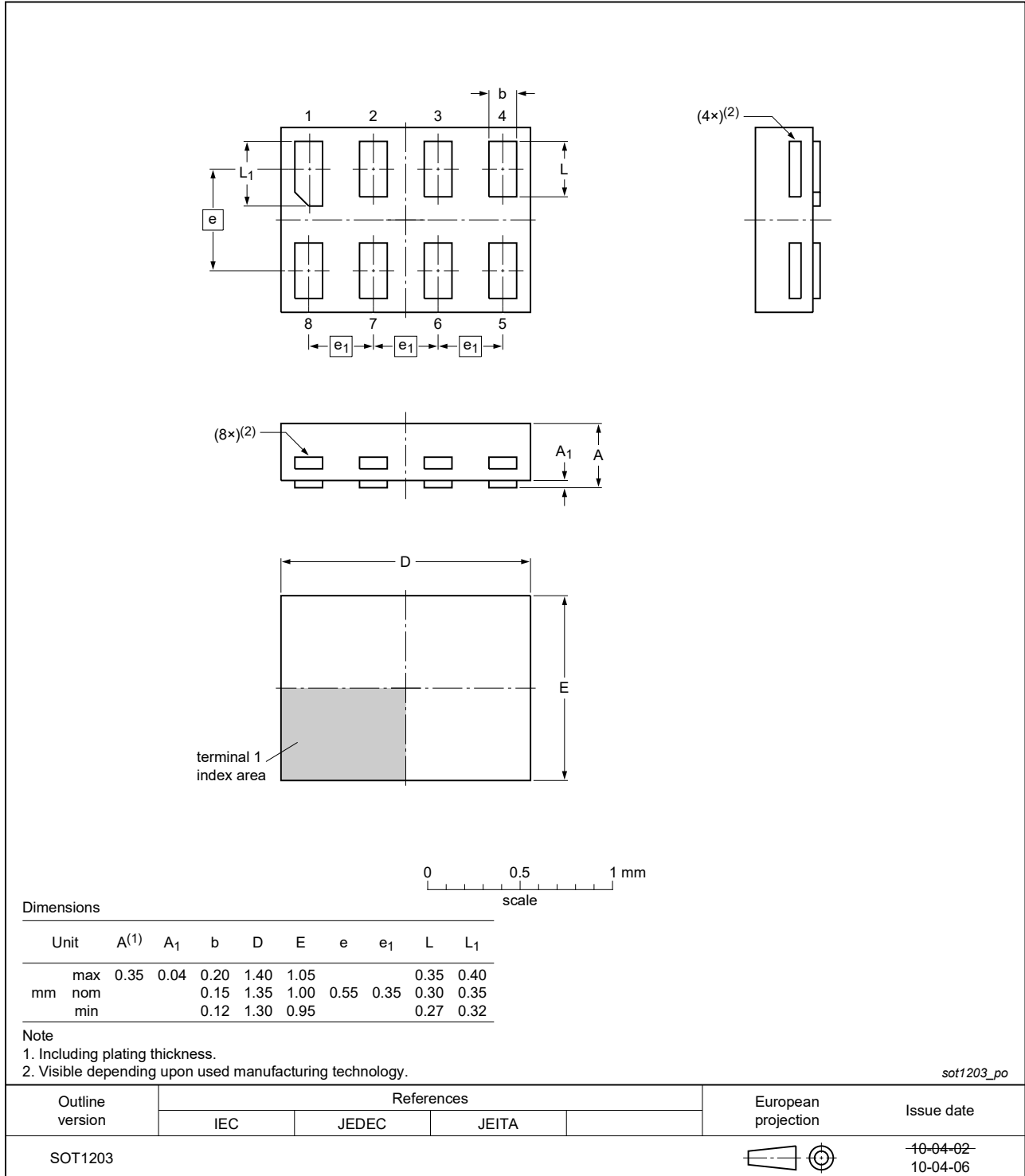


Fig. 12. Package outline SOT1203 (XSON8)

## 13. Abbreviations

Table 11. Abbreviations

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

## 14. Revision history

Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes
74AUP2G241 v.10	20230727	Product data sheet	-	74AUP2G241 v.9
Modifications:	<ul style="list-style-type: none"> <li><a href="#">Section 2</a>: ESD specification updated according to the latest JEDEC standard.</li> </ul>			
74AUP2G241 v.9	20201201	Product data sheet	-	74AUP2G241 v.8
Modifications:	<ul style="list-style-type: none"> <li><a href="#">Section 8</a>: Derating values for <math>P_{tot}</math> total power dissipation have been updated.</li> <li>Type numbers 74AUP2G241GF (SOT1089/XSON8) and 74AUP2G241GM (SOT902-2/XQFN8) removed.</li> </ul>			
74AUP2G241 v.8	20190321	Product data sheet	-	74AUP2G241 v.7
Modifications:	<ul style="list-style-type: none"> <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 74AUP2G241GD (XSON8/SOT996-2) removed.</li> <li>Package outline drawing <a href="#">SOT765-1</a> (VSSOP8) updated.</li> <li>Package outline drawing SOT902-2 (XQFN8) updated.</li> </ul>			
74AUP2G241 v.7	20130211	Product data sheet	-	74AUP2G241 v.6
Modifications:	<ul style="list-style-type: none"> <li>For type number 74AUP2G241GD XSON8U has changed to XSON8.</li> </ul>			
74AUP2G241 v.6	20120606	Product data sheet	-	74AUP2G241 v.5
74AUP2G241 v.5	20111205	Product data sheet	-	74AUP2G241 v.4
74AUP2G241 v.4	20100913	Product data sheet	-	74AUP2G241 v.3
74AUP2G241 v.3	20090112	Product data sheet	-	74AUP2G241 v.2
74AUP2G241 v.2	20080219	Product data sheet	-	74AUP2G241 v.1
74AUP2G241 v.1	20061012	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.
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.
Product [short] data sheet	Production	This document contains the product specification.

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
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