

# 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			Version
	Temperature range	Name	Description	
<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

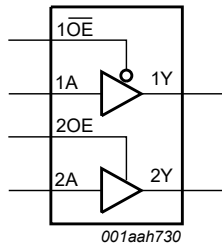


Fig. 1. Logic symbol

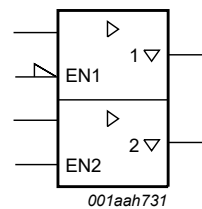


Fig. 2. IEC logic symbol

## 6. Pinning information

### 6.1. Pinning

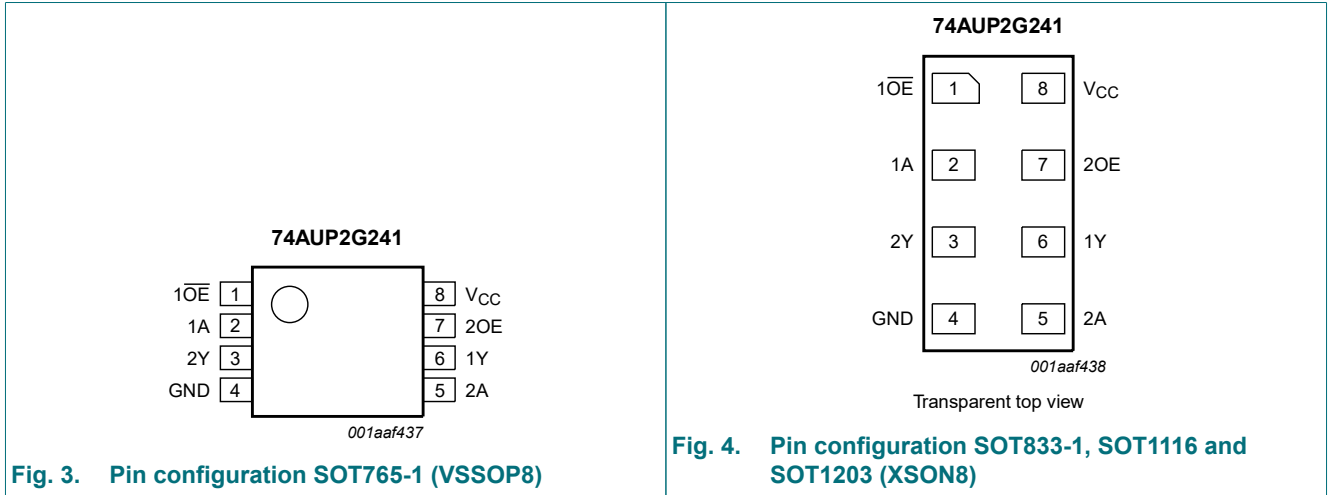


Fig. 3. Pin configuration SOT765-1 (VSSOP8)

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
V <sub>CC</sub> = 2.3 V to 2.7 V	1.5	2.9	4.2	1.4	4.5	1.4	4.8	ns		
V <sub>CC</sub> = 3.0 V to 3.6 V	1.4	2.6	3.6	1.3	3.8	1.3	4.0	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		

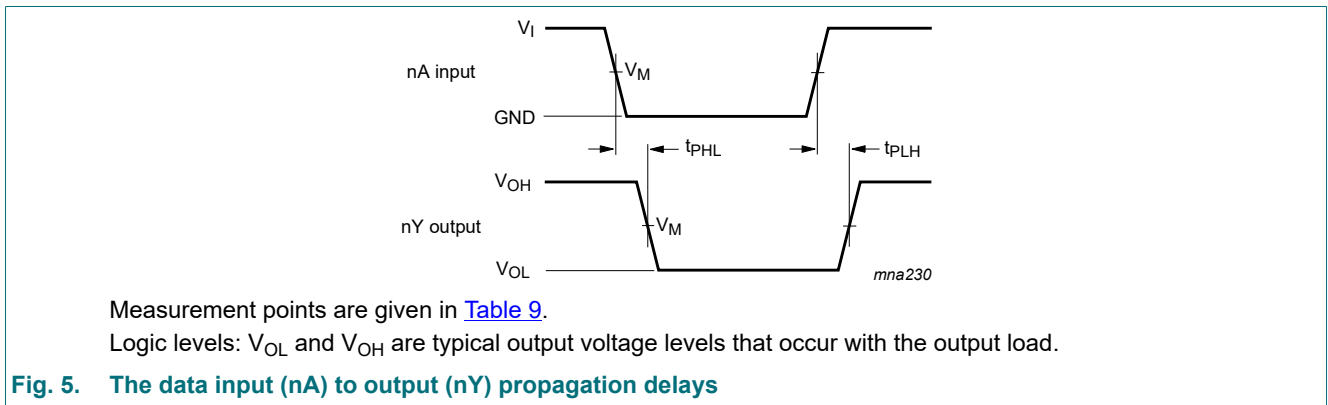
Symbol	Parameter	Conditions	$T_{amb} = 25\text{ }^{\circ}\text{C}$			$T_{amb} = -40\text{ }^{\circ}\text{C to } +85\text{ }^{\circ}\text{C}$		$T_{amb} = -40\text{ }^{\circ}\text{C to } +125\text{ }^{\circ}\text{C}$		Unit		
			Min	Typ[1]	Max	Min	Max	Min	Max			
<b><math>C_L = 15\text{ pF}</math></b>		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

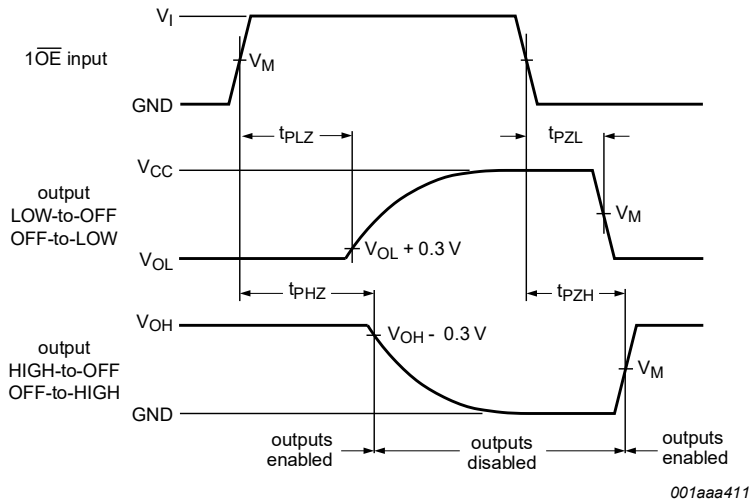
Symbol	Parameter	Conditions	T <sub>amb</sub> = 25 °C			T <sub>amb</sub> = -40 °C to +85 °C		T <sub>amb</sub> = -40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
<b>C<sub>L</sub> = 30 pF</b>										
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 5 [2]								
		V <sub>CC</sub> = 0.8 V	-	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

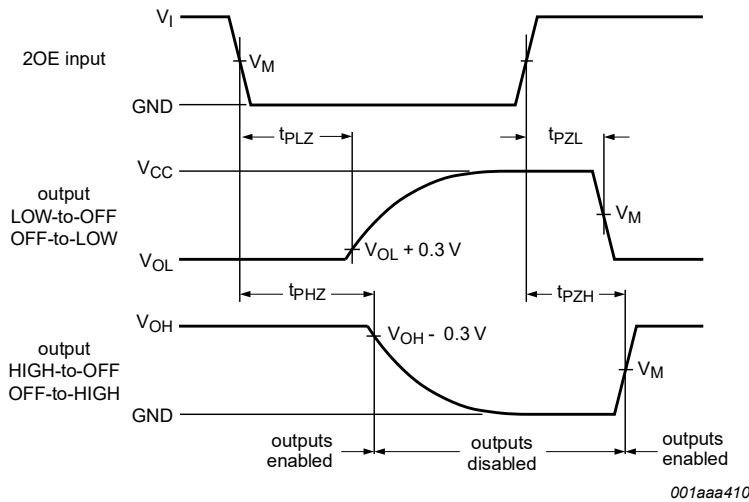




Measurement points are given in [Table 9](#).

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**



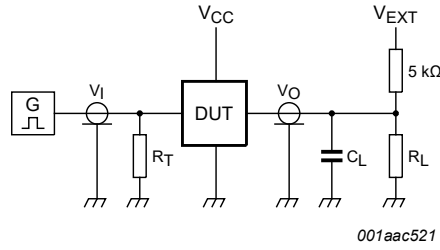
Measurement points are given in [Table 9](#).

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

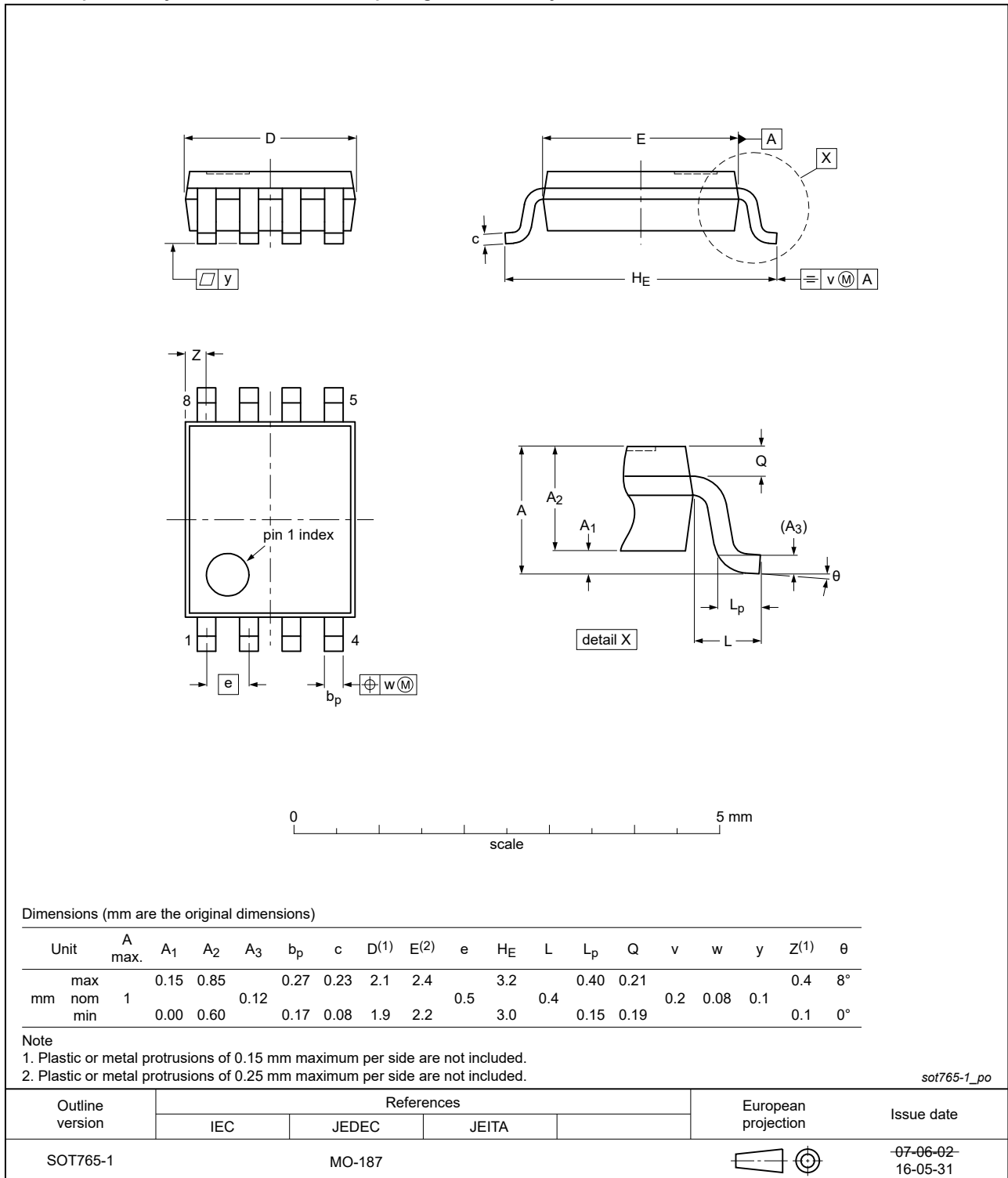


Fig. 9. Package outline SOT765-1 (VSSOP8)

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

SOT833-1

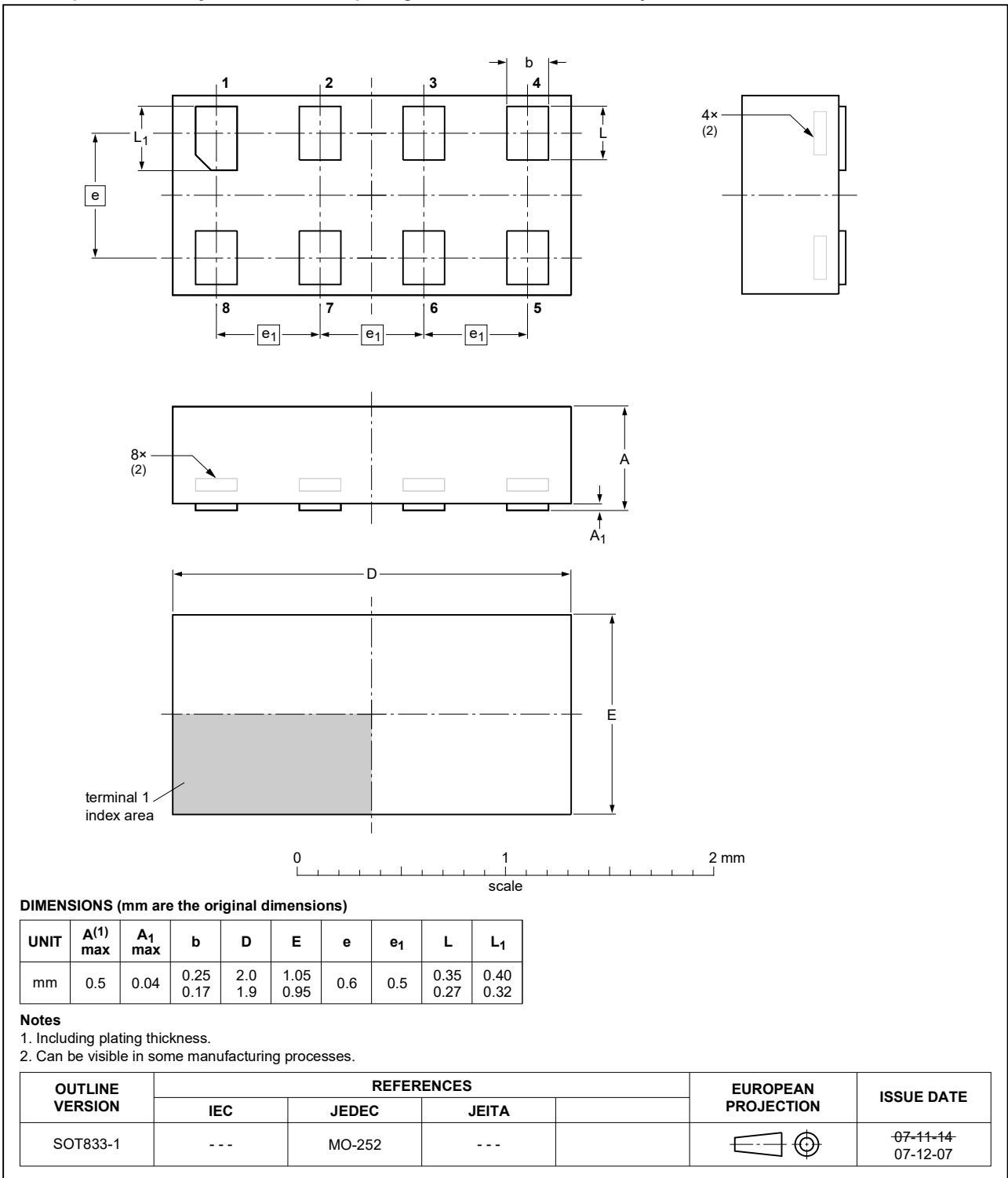


Fig. 10. Package outline SOT833-1 (XSON8)



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

SOT1116

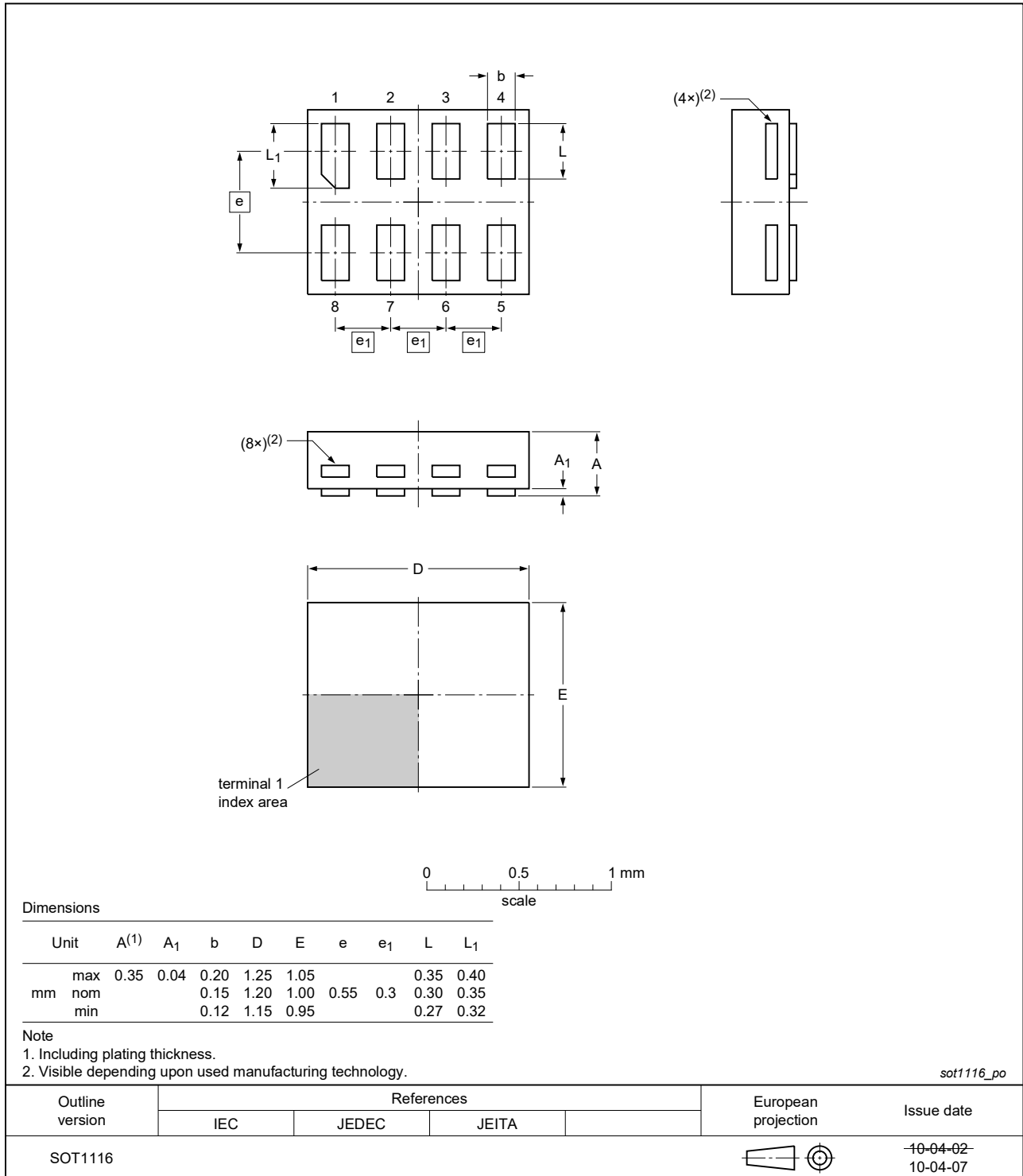


Fig. 11. Package outline SOT1116 (XSON8)

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

SOT1203

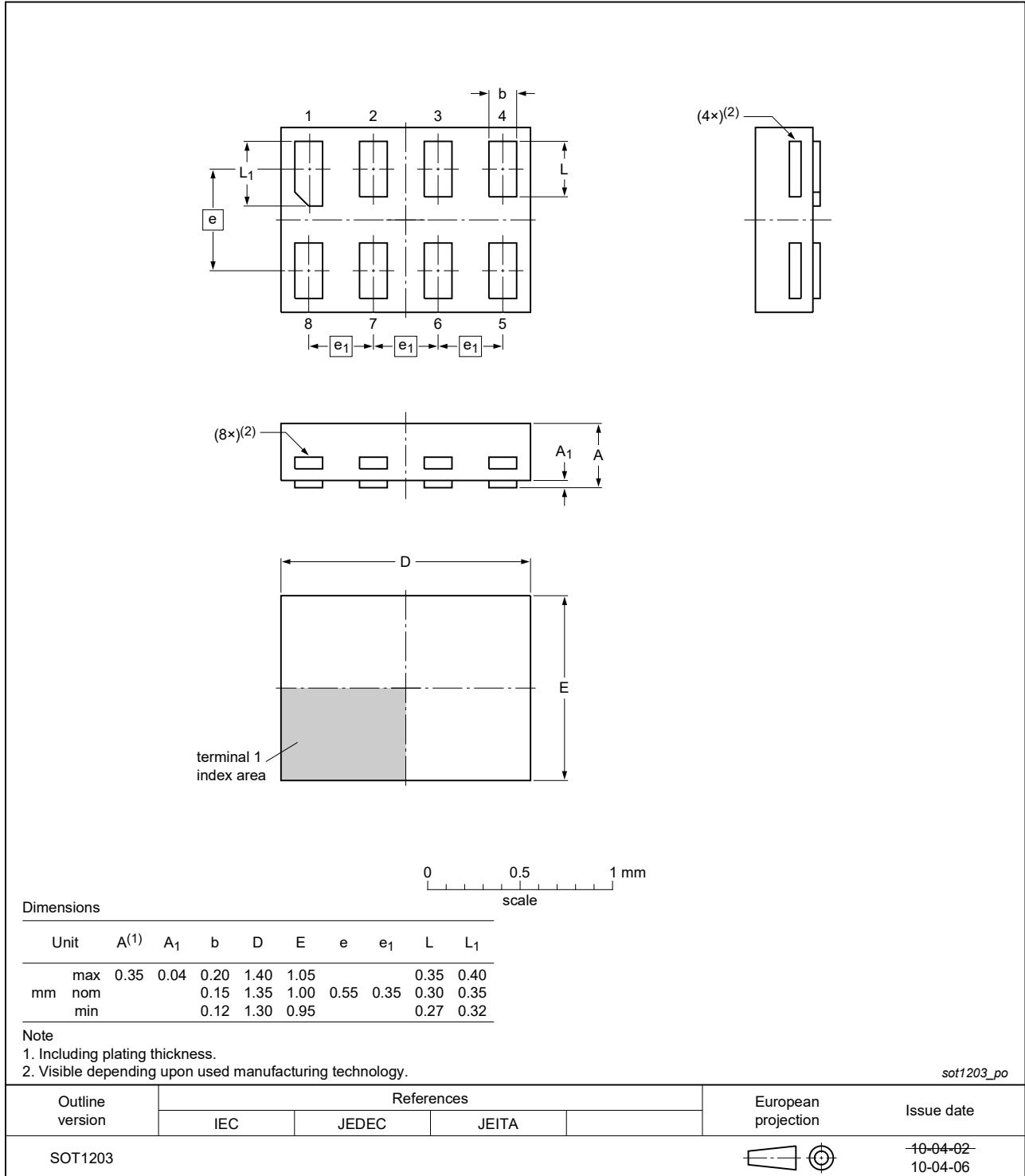


Fig. 12. Package outline SOT1203 (XSON8)

## 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".
- [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 <https://www.nexperia.com>.

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