Low-power dual buffer/line driver; 3-state Rev. 8 — 21 March 2019

### 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)
- ESD protection:
  - HBM JESD22-A114F Class 3A exceeds 5000 V
  - MM JESD22-A115-A exceeds 200 V
  - CDM JESD22-C101E exceeds 1000 V
- Low static power consumption;  $I_{CC} = 0.9 \mu A$  (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<sub>CC</sub>
- Input-disable feature allows floating input conditions
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C

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# 3. Ordering information

Table	1.	Ordering	information

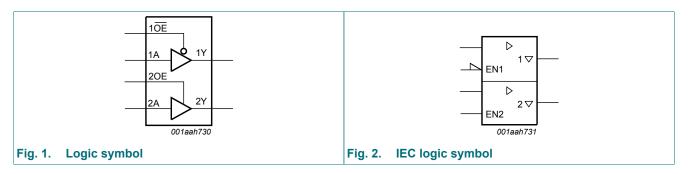
Type number	Package							
	Temperature range	Name	Description	Version				
74AUP2G241DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1				
74AUP2G241GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1				
74AUP2G241GF	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1 × 0.5 mm	SOT1089				
74AUP2G241GM	-40 °C to +125 °C	XQFN8	plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 × 1.6 × 0.5 mm	SOT902-2				
74AUP2G241GN	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.2 × 1.0 × 0.35 mm	SOT1116				
74AUP2G241GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203				

### 4. Marking

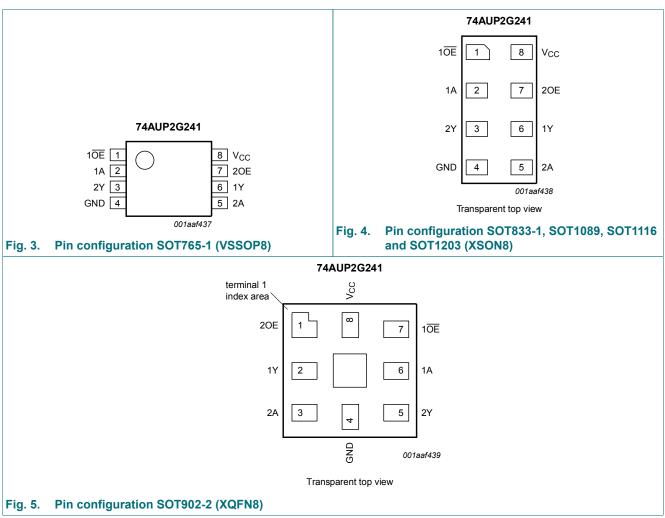
Table 2. Marking codes				
Type number	Marking code [1]			
74AUP2G241DC	p41			
74AUP2G241GT	p41			
74AUP2G241GF	p1			
74AUP2G241GM	p41			
74AUP2G241GN	p1			
74AUP2G241GS	p1			

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

### 5. Functional diagram



### 6. Pinning information



### 6.1. Pinning

### 6.2. Pin description

### Table 3. Pin description

Symbol	Pin	Description	
	SOT765-1, SOT833-1, SOT1089, SOT1116 and SOT1203	SOT902-2	
1 <del>0E</del>	1	7	output enable input 1OE (active LOW)
1A, 2A	2, 5	6, 3	data input
1Y, 2Y	6, 3	2, 5	data output
GND	4	4	ground (0 V)
20E	7	1	output enable input 2OE (active HIGH)
V <sub>CC</sub>	8	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
1 <del>0E</del>	1A	1Y	20E	2A	2Y
L	L	L	Н	L	L
L	Н	Н	Н	Н	Н
Н	Х	Z	L	Х	Z

### 8. Limiting values

#### Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>CC</sub>	supply voltage		-0.5	+4.6	V
I <sub>IK</sub>	input clamping current	V <sub>I</sub> < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I <sub>OK</sub>	output clamping current	V <sub>O</sub> < 0 V	-50	-	mA
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
I <sub>O</sub>	output current	$V_{O} = 0 V \text{ to } V_{CC}$	-	±20	mA
I <sub>CC</sub>	supply current		-	+50	mA
I <sub>GND</sub>	ground current		-50	-	mA
T <sub>stg</sub>	storage temperature		-65	+150	°C
P <sub>tot</sub>	total power dissipation	T <sub>amb</sub> = -40 °C to +125 °C [2]	-	250	mW

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

[2] For VSSOP8 packages: above 110 °C the value of Ptot derates linearly with 8.0 mW/K.

For XSON8 and XQFN8 packages: above 118 °C the value of Ptot derates linearly with 7.8 mW/K.

### 9. Recommended operating conditions

#### Table 6. 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	Active mode	0	V <sub>CC</sub>	V
		Power-down mode; V <sub>CC</sub> = 0 V	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	Min	Тур	Мах	Unit
T <sub>amb</sub> = 2	5 °C		I			1
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 0.8 V	0.70V <sub>CC</sub>	-	-	V
	voltage	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	V <sub>CC</sub> = 0.8 V	-	-	0.30V <sub>CC</sub>	V
	voltage	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
V <sub>OH</sub>	HIGH-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$				_
	voltage	$I_{\rm O}$ = -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		-	-	V
		$I_0$ = -2.3 mA; $V_{CC}$ = 2.3 V		-	-	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		-	-	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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	$I_{O}$ = 20 µA; $V_{CC}$ = 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	input leakage current	$V_1$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.1	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 3.6 \text{ V}$	-	-	±0.1	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O}$ = 0 V to 3.6 V; $V_{CC}$ = 0 V	-	-	±0.2	μA
∆l <sub>OFF</sub>	additional power-off leakage current	$V_{I}$ or $V_{O}$ = 0 V to 3.6 V; $V_{CC}$ = 0 V to 0.2 V	-	-	±0.2	μA

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Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
I <sub>CC</sub>	supply current	$V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.5	μA
ΔI <sub>CC</sub>	additional supply current	data input; $V_1 = V_{CC} - 0.6 V$ ; $I_0 = 0 A$ ; [1] $V_{CC} = 3.3 V$	-	-	40	μA
		$1\overline{\text{OE}}$ and 2OE input; V <sub>I</sub> = V <sub>CC</sub> - 0.6 V; [1] I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	-	-	110	μA
		all inputs; $V_I$ = GND to 3.6 V; $1\overline{OE} = V_{CC}$ ; [2] 2OE = GND; $V_{CC}$ = 0.8 V to 3.6 V	-	-	1	μA
Cı	input capacitance	$V_{CC}$ = 0 V to 3.6 V; V <sub>I</sub> = GND or V <sub>CC</sub>	-	0.6	-	pF
Co	output capacitance	output enabled; $V_0$ = GND; $V_{CC}$ = 0 V	-	1.7	-	pF
		output disabled; $V_{CC}$ = 0 V to 3.6 V; $V_O$ = GND or $V_{CC}$	-	1.5	-	pF
T <sub>amb</sub> = -4	40 °C to +85 °C					
VIH	HIGH-level input	V <sub>CC</sub> = 0.8 V	0.70V <sub>CC</sub>	-	-	V
	voltage	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
VIL	LOW-level input	V <sub>CC</sub> = 0.8 V	-	-	0.30V <sub>CC</sub>	V
	voltage	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
V <sub>OH</sub>	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>				
		$I_{O}$ = -20 µA; $V_{CC}$ = 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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	$I_{O}$ = 20 µA; $V_{CC}$ = 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
l <sub>l</sub>	input leakage current	$V_1$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.5	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O}$ = 0 V to 3.6 V; $V_{CC}$ = 0 V	-	-	±0.5	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 3.6 \text{ V}$	-	-	±0.5	μA
Δl <sub>OFF</sub>	additional power-off leakage current	$V_{I}$ or $V_{O}$ = 0 V to 3.6 V; $V_{CC}$ = 0 V to 0.2 V	-	-	±0.6	μA

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
I <sub>CC</sub>	supply current	$V_I = GND \text{ or } V_{CC}; I_O = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	0.9	μA
ΔI <sub>CC</sub>	additional supply current	data input; $V_1 = V_{CC} - 0.6 V$ ; $I_0 = 0 A$ ; [1] $V_{CC} = 3.3 V$	-	-	50	μA
		$1\overline{\text{OE}}$ and 2OE input; V <sub>1</sub> = V <sub>CC</sub> - 0.6 V; [1] I <sub>O</sub> = 0 A; V <sub>CC</sub> = 3.3 V	-	-	120	μA
		all inputs; $V_1 = GND$ to 3.6 V; $1\overline{OE} = V_{CC}$ ; [2] 2OE = GND; $V_{CC} = 0.8$ V to 3.6 V	-	-	1	μA
T <sub>amb</sub> = -4	40 °C to +125 °C					
V <sub>IH</sub>	HIGH-level input	V <sub>CC</sub> = 0.8 V	0.75V <sub>CC</sub>	-	-	V
	voltage	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
		$ \begin{array}{ c c c c c c } \hline V_{CC} = 0.9 \ V \ to \ 1.95 \ V & 0.70 \ V_{CC} & - & - & V \\ \hline V_{CC} = 2.3 \ V \ to \ 2.7 \ V & 1.6 & - & - & V \\ \hline V_{CC} = 3.0 \ V \ to \ 3.6 \ V & 2.0 & - & - & V \\ \hline V_{CC} = 0.8 \ V & 2.0 & - & - & V \\ \hline V_{CC} = 0.9 \ V \ to \ 1.95 \ V & - & - & 0.25 \ V_{CC} & V \\ \hline V_{CC} = 2.3 \ V \ to \ 2.7 \ V & - & - & 0.30 \ V_{CC} & V \\ \hline V_{CC} = 2.3 \ V \ to \ 2.7 \ V & - & - & 0.30 \ V_{CC} & V \\ \hline V_{CC} = 3.0 \ V \ to \ 3.6 \ V & - & - & 0.7 & V \\ \hline V_{CC} = 3.0 \ V \ to \ 3.6 \ V & - & - & 0.9 & V \\ \hline V_{CC} = 3.0 \ V \ to \ 3.6 \ V & - & - & 0.9 & V \\ \hline V_{CC} = 3.0 \ V \ to \ 3.6 \ V & - & - & 0.9 & V \\ \hline V_{CC} = 3.0 \ V \ to \ 3.6 \ V & V_{CC} - 0.11 & - & - & V \\ \hline V_{CC} = -20 \ \mu A; \ V_{CC} = 0.8 \ V \ to \ 3.6 \ V & V_{CC} - 0.11 & - & - & V \\ \hline I_{O} = -1.1 \ mA; \ V_{CC} = 1.1 \ V & 0.6 \ V_{CC} & - & - & V \\ \hline I_{O} = -1.7 \ mA; \ V_{CC} = 1.4 \ V & 0.93 & - & - & V \\ \hline I_{O} = -1.9 \ mA; \ V_{CC} = 1.65 \ V & 1.17 & - & - & V \\ \hline I_{O} = -2.3 \ mA; \ V_{CC} = 2.3 \ V & 1.67 & - & - & V \\ \hline I_{O} = -3.1 \ mA; \ V_{CC} = 2.3 \ V & 1.67 & - & - & V \\ \hline \end{array}$				
V <sub>IL</sub>	LOW-level input	V <sub>CC</sub> = 0.8 V	-	-	0.25V <sub>CC</sub>	V
	voltage	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
V <sub>OH</sub>	HIGH-level output voltage	$V_{I} = V_{IH} \text{ or } V_{IL}$				
		$I_{O}$ = -20 µA; $V_{CC}$ = 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	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	$I_{O}$ = 20 µA; $V_{CC}$ = 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
l <sub>l</sub>	input leakage current	$V_1$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.75	μA
I <sub>OZ</sub>	OFF-state output current	$V_{I} = V_{IH} \text{ or } V_{IL}; V_{O} = 0 \text{ V to } 3.6 \text{ V};$ $V_{CC} = 0 \text{ V to } 3.6 \text{ V}$	-	-	±0.75	μA
I <sub>OFF</sub>	power-off leakage current	$V_{I}$ or $V_{O}$ = 0 V to 3.6 V; $V_{CC}$ = 0 V	-	-	±0.75	μA
Δl <sub>OFF</sub>	additional power-off leakage current	$V_{I}$ or $V_{O}$ = 0 V to 3.6 V; $V_{CC}$ = 0 V to 0.2 V	-	-	±0.75	μA

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

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
I <sub>CC</sub>	supply current	V <sub>1</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
	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
		$1\overline{\text{OE}}$ 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]	-	-	180	μA
		all inputs; V <sub>I</sub> = GND to 3.6 V; $1\overline{OE} = V_{CC}$ ; 2OE = GND; V <sub>CC</sub> = 0.8 V to 3.6 V	[2]	-	-	1	μA

[1] One input at  $V_{CC}$  - 0.6 V, other input at  $V_{CC}$  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. 9.

Symbol	Parameter	Conditions		25 °C		-40	) °C to +1	25 °C	Unit
			Min	Тур [1]	Max	Min	Max (85 °C)	Max (125 °C)	
C <sub>L</sub> = 5 pl	F	· · · · · · · · · · · · · · · · · · ·							
t <sub>pd</sub>	propagation	nA to nY; see Fig. 6 [2]							
	delay	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	12.9	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	3.9	6.1	2.0	7.3	8.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.9	3.2	4.8	1.7	6.1	6.7	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.6	2.6	3.6	1.4	4.3	4.9	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.4	2.4	3.1	1.2	3.9	4.4	ns
t <sub>en</sub>	enable time	10E to 1Y; see Fig. 7 [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	15.4	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.5	4.2	6.6	2.3	7.7	8.3	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	3.4	5.1	2.0	6.2	6.8	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.8	2.6	3.7	1.7	4.5	5.0	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	2.4	3.1	1.7	3.5	3.9	ns
		2OE to 2Y; see Fig. 8 [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	13.6	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.3	4.2	6.9	2.2	7.4	7.7	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.9	3.3	5.3	1.7	5.9	6.2	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.5	2.4	3.6	1.4	3.8	4.1	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.3	2.0	2.9	1.2	3.2	3.4	ns

Symbol	Parameter	Conditions		25 °C			-40 °C to +125 °C		
			Min	Тур [1]	Max	Min	Max (85 °C)	Max (125 °C)	
t <sub>dis</sub>	disable time	10E to 1Y; see Fig. 7 [4]	1						
		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	8.2	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.1	3.2	4.4	2.1	5.1	5.7	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.0	3.0	4.3	2.0	5.0	5.7	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.4	2.2	2.9	1.4	3.3	4.1	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	2.5	3.2	1.7	3.4	3.9	ns
		2OE to 2Y; see Fig. 8 [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	6.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.1	3.2	4.4	2.2	4.6	4.7	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	3.1	4.4	1.7	4.6	4.8	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.7	2.4	3.2	1.4	3.4	3.6	ns
		$V_{CC}$ = 3.0 V to 3.6 V	2.1	2.8	3.6	1.2	3.7	3.8	ns
C <sub>L</sub> = 10	pF		1					1	1
t <sub>pd</sub>	propagation	nA to nY; see <u>Fig. 6</u> [2]							
	delay	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	15.2	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.1	4.5	7.3	1.9	8.5	9.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.9	3.8	5.5	1.7	6.8	7.6	ns
		$V_{CC}$ = 2.3 V to 2.7 V	2.1	3.2	4.2	1.6	5.3	5.9	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.8	3.0	3.8	1.6	4.6	5.2	ns
t <sub>en</sub>	enable time	10E to 1Y; see Fig. 7 [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	17.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.3	4.8	7.7	2.2	8.6	9.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.0	3.9	5.8	1.9	6.8	7.4	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.8	3.2	4.3	1.7	5.3	5.9	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	3.0	3.9	1.7	4.3	4.8	ns
		20E to 2Y; see Fig. 8 [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	15.4	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	4.8	8.0	2.1	8.3	8.6	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.8	3.9	5.9	1.7	6.5	6.8	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.5	2.9	4.2	1.4	4.5	4.8	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.4	2.6	3.6	1.3	3.8	4.0	ns

Symbol	Parameter	Conditions	25 °C			-40 °C to +125 °C			Unit
			Min	Тур [1]	Max	Min	Max (85 °C)	Max (125 °C)	
t <sub>dis</sub>	disable time	10E to 1Y; see Fig. 7 [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	9.9	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	4.1	5.5	2.2	6.2	7.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.2	4.2	5.6	1.9	6.3	7.1	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.7	3.0	3.8	1.7	4.5	5.1	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.1	3.8	4.8	1.7	5.0	5.6	ns
		2OE to 2Y; see Fig. 8 [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	7.9	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.2	4.1	5.6	2.1	5.7	5.9	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.4	4.2	5.7	1.7	5.8	6.0	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.9	3.2	4.1	1.4	4.3	4.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.4	4.1	5.0	1.3	5.2	5.3	ns
C <sub>L</sub> = 15	pF								
t <sub>pd</sub>	propagation delay	nA to nY; see Fig. 6 [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	17.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.1	8.1	2.5	9.8	10.9	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.2	4.3	6.3	2.0	7.9	8.8	ns
		$V_{CC}$ = 2.3 V to 2.7 V	2.0	3.7	4.9	1.8	6.0	6.7	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	3.5	4.4	1.8	5.4	6.1	ns
t <sub>en</sub>	enable time	10E to 1Y; see Fig. 7 [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	19.6	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.3	8.4	2.5	9.8	10.7	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.3	4.4	6.5	2.1	7.7	8.5	ns
		$V_{\rm CC}$ = 2.3 V to 2.7 V	2.1	3.6	5.0	2.0	6.1	6.8	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.0	3.5	4.5	1.9	4.9	5.5	ns
		20E to 2Y; see Fig. 8 [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	17.1	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	5.4	8.8	2.9	9.4	9.7	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	4.3	6.7	2.0	7.3	7.7	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.8	3.4	4.8	1.7	5.2	5.6	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.6	3.1	4.3	1.5	4.5	4.7	ns

Symbol	Parameter	Conditions		25 °C			-40 °C to +125 °C		
			Min	Тур [1]	Max	Min	Max (85 °C)	Max (125 °C)	
t <sub>dis</sub>	disable time	10E to 1Y; see Fig. 7 [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	11.6	ns
		$V_{CC}$ = 1.4 V to 1.6 V	3.0	5.0	6.5	2.5	7.4	8.4	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	5.3	6.6	2.1	7.4	8.9	ns
		$V_{CC}$ = 2.3 V to 2.7 V	2.1	3.8	4.9	2.0	5.1	6.4	ns
		$V_{CC}$ = 3.0 V to 3.6 V	2.9	5.0	6.2	1.9	6.6	7.4	ns
		2OE to 2Y; see Fig. 8 [4]							
		$V_{CC} = 0.8 V$	-	14.9	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	4.3	6.4	8.5	3.7	9.3	9.4	ns
		$V_{CC}$ = 1.4 V to 1.6 V	3.0	5.0	6.6	2.5	6.9	7.0	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.1	5.4	6.6	2.0	7.4	7.5	ns
		$V_{CC}$ = 2.3 V to 2.7 V	2.4	4.0	5.0	1.7	5.1	5.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	3.2	5.3	6.2	1.5	6.7	6.9	ns
C <sub>L</sub> = 30	pF		1	11			1	1	-
t <sub>pd</sub>	propagation delay	nA to nY; see <u>Fig. 6</u> [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	24.0	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.0	6.7	10.8	3.0	13.0	14.5	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.9	5.6	8.4	2.6	10.3	11.5	ns
		$V_{CC}$ = 2.3 V to 2.7 V	2.7	4.8	6.3	2.5	7.8	8.7	ns
		$V_{CC}$ = 3.0 V to 3.6 V	2.7	4.6	5.8	2.5	7.0	8.3	ns
t <sub>en</sub>	enable time	10E to 1Y; see Fig. 7 [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	25.3	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.0	6.8	10.8	3.1	12.6	14.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	5.6	8.5	2.8	10.2	11.3	ns
		$V_{CC}$ = 2.3 V to 2.7 V	2.7	4.8	6.5	2.6	7.8	8.8	ns
		$V_{CC}$ = 3.0 V to 3.6 V	2.7	4.6	6.0	2.6	6.9	7.7	ns
		2OE to 2Y; see Fig. 8 [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	22.0	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	3.0	6.9	11.3	3.7	12.0	12.5	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	2.6	5.6	8.6	3.2	9.5	10.1	ns
		$V_{CC}$ = 2.3 V to 2.7 V	2.3	4.5	6.3	2.9	6.8	7.3	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	2.2	4.2	5.8	2.7	6.4	6.7	ns

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

Symbol	Parameter	Conditions		25 °C		-40 °C to +125 °C			Unit
			Min	Typ [1]	Max	Min	Max (85 °C)	Мах (125 °С)	
t <sub>dis</sub>	disable time	10E to 1Y; see Fig. 7 [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	16.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.4	7.7	9.6	3.1	10.7	12.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	5.1	8.7	11.1	2.8	12.4	13.8	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	3.6	6.2	7.4	2.6	8.6	9.6	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	5.2	8.7	10.5	2.6	10.8	13.1	ns
		2OE to 2Y; see Fig. 8 [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	14.4	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	4.5	7.7	10.5	3.0	10.7	11.0	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	5.2	8.8	11.4	2.6	11.5	11.6	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	3.9	6.4	7.4	2.3	9.0	10.2	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	5.5	9.0	10.7	2.2	10.8	12.0	ns
C <sub>L</sub> = 5 p	F, 10 pF, 15 pF	and 30 pF							
C <sub>PD</sub>	power	$f = 1 \text{ MHz}; V_1 = \text{GND to } V_{\text{CC}}$ [5]							
	dissipation capacitance	V <sub>CC</sub> = 0.8 V	-	2.8	-	-	-	-	pF
	capacitance	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

All typical values are measured at nominal V<sub>CC</sub>. [1]

[2] [3]

[4]

All typical values are measured at nominal V<sub>CC</sub>.  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ .  $t_{en}$  is the same as  $t_{PZH}$  and  $t_{PZL}$ .  $t_{dis}$  is the same as  $t_{PHZ}$  and  $t_{PLZ}$ .  $C_{PD}$  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:  $f_i = input$  frequency in MHz; [5]

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

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

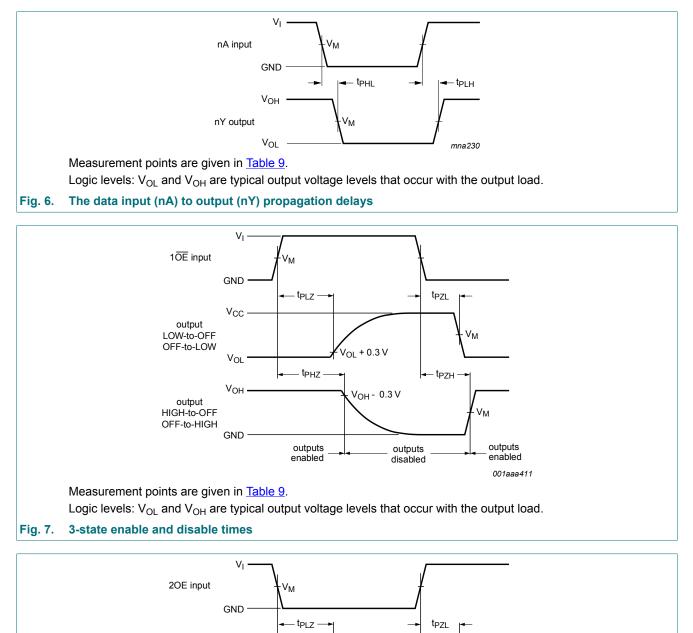
V<sub>CC</sub> = supply voltage in V;

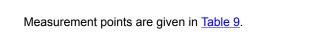
N = number of inputs switching;

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

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







output LOW-to-OFF OFF-to-LOW

output HIGH-to-OFF

OFF-to-HIGH

 $V_{CC}$ 

VOL

 $V_{OH}$ 

GND

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

outputs

enabled

t<sub>PHZ</sub>

#### Fig. 8. 3-state enable and disable times

74AUP2G241

V<sub>OL</sub> + 0.3 V

V<sub>OH</sub> - 0.3 V

outputs

disabled

tpzh 🛶

Vм

outputs

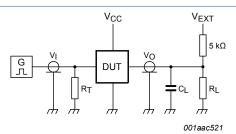
enabled

001aaa410

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

#### Table 9. Measurement points

Supply voltage Input				Output		
V <sub>cc</sub>	V <sub>M</sub>	VI	t <sub>r</sub> = t <sub>f</sub>	V <sub>M</sub>	V <sub>X</sub>	V <sub>Y</sub>
0.8 V to 1.6 V	$0.5 \times V_{CC}$	V <sub>CC</sub>	≤ 3.0 ns	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.1 V	V <sub>OH</sub> - 0.1 V
1.65 V to 2.7 V	$0.5 \times V_{CC}$	V <sub>CC</sub>	≤ 3.0 ns	$0.5 \times V_{CC}$	V <sub>OL</sub> + 0.15 V	V <sub>OH</sub> - 0.15 V
3.0 V to 3.6 V	0.5 × V <sub>CC</sub>	V <sub>CC</sub>	≤ 3.0 ns	0.5 × V <sub>CC</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OH</sub> - 0.3 V



Test data is given in Table 10.

Definitions for test circuit:

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

 $C_{\text{L}}$  = Load capacitance including jig and probe capacitance.

 $R_T$  = Termination resistance should be equal to the output impedance  $Z_0$  of the pulse generator.

V<sub>EXT</sub> = External voltage for measuring switching times.

#### Fig. 9. Test circuit for measuring switching times

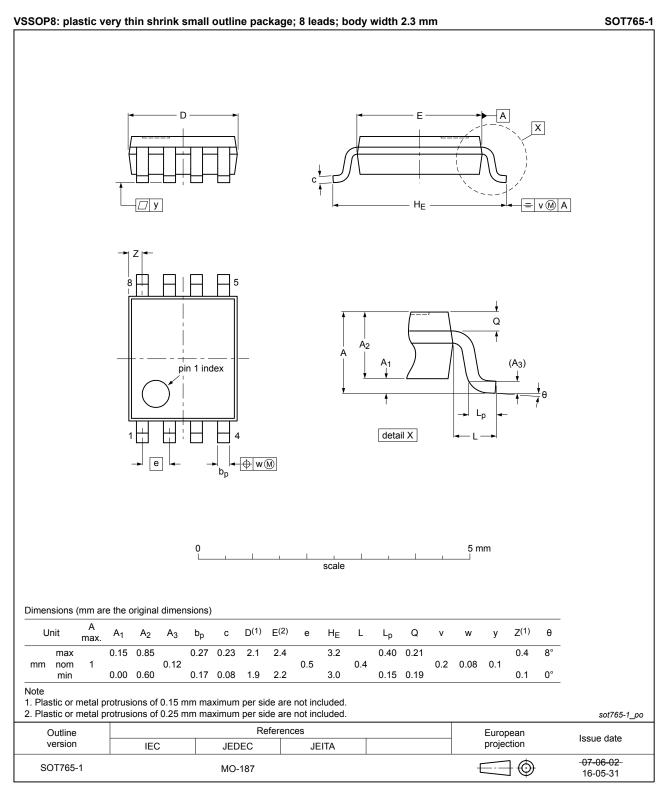
#### Table 10. Test data

Supply voltage	Load	V <sub>EXT</sub>			
V <sub>cc</sub>	CL	R <sub>L</sub> [1]	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 3.6 V	5 pF, 10 pF, 15 pF and 30 pF	5 kΩ or 1 MΩ	open	GND	2 × V <sub>CC</sub>

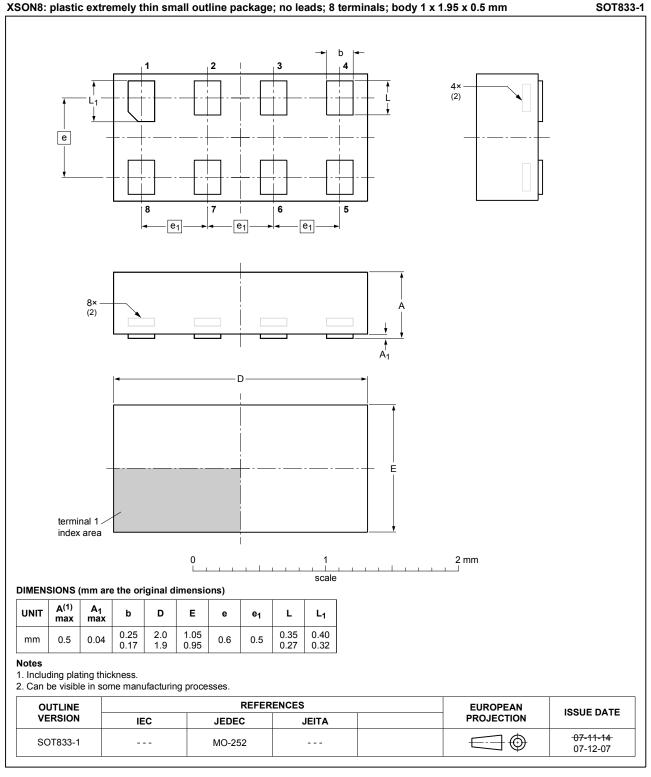
[1] For measuring enable and disable times  $R_L = 5 k\Omega$ , for measuring propagation delays, setup and hold times and pulse width  $R_L = 1 M\Omega$ .

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### 12. Package outline

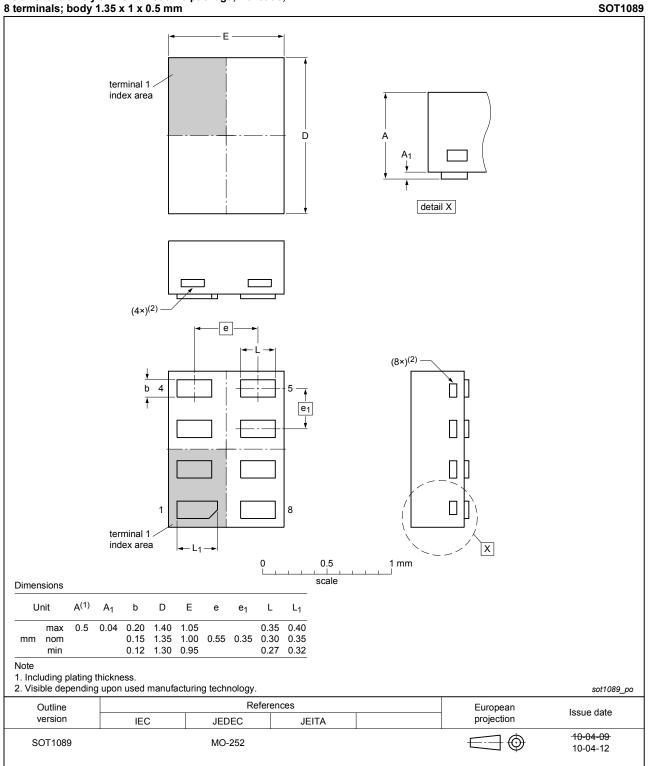


#### Fig. 10. Package outline SOT765-1 (VSSOP8)





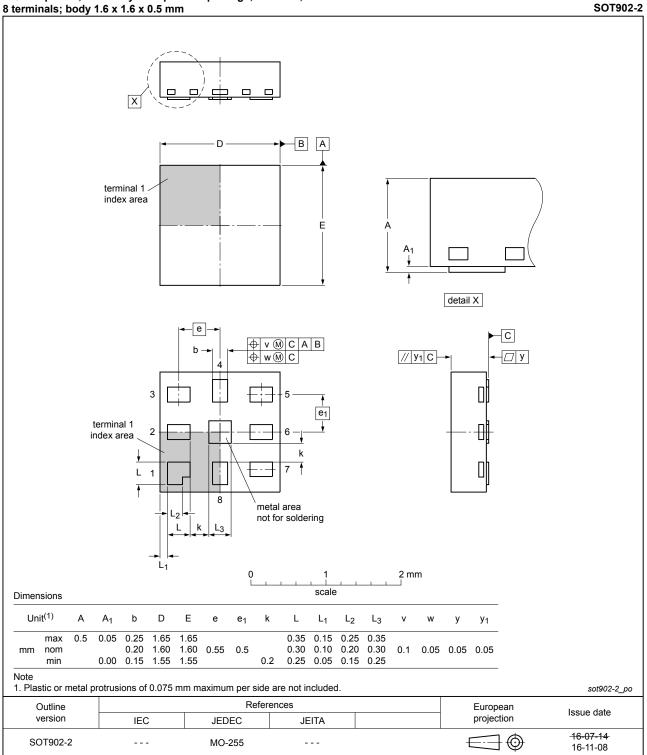
#### Low-power dual buffer/line driver; 3-state



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

Fig. 12. Package outline SOT1089 (XSON8)

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

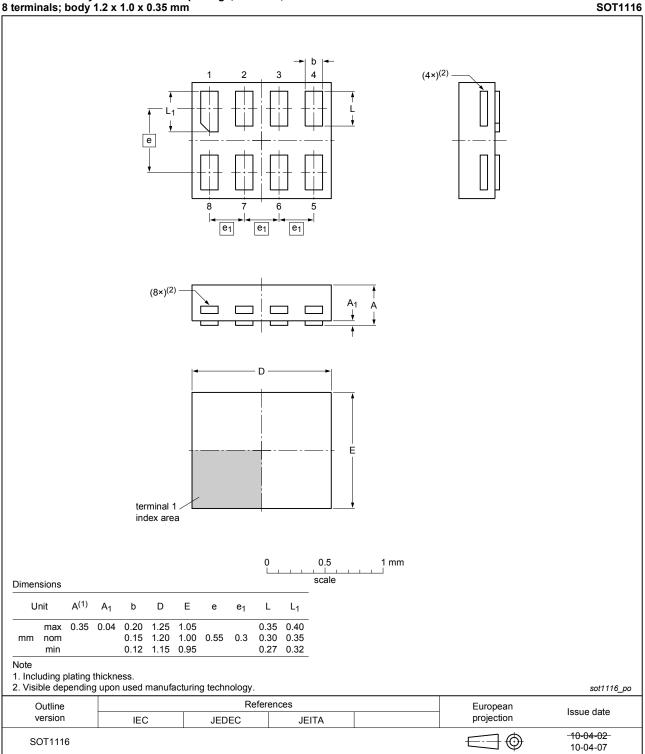


#### XQFN8: plastic, extremely thin quad flat package; no leads; 8 terminals; body 1.6 x 1.6 x 0.5 mm

Fig. 13. Package outline SOT902-2 (XQFN8)

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

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





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

#### XSON8: extremely thin small outline package; no leads; 8 terminals; body 1.35 x 1.0 x 0.35 mm SOT1203 b (4×)<sup>(2)</sup> 4 2 3 е 8 6 e<sub>1</sub>e<sub>1</sub> e<sub>1</sub> $(8 \times)^{(2)}$ А С С ٦ D E terminal 1 index area 0.5 1 mm 0 1 1 . scale Dimensions Unit A<sup>(1)</sup> A<sub>1</sub> b D Е L е e<sub>1</sub> $L_1$ 0.35 0.04 0.20 1.40 1.05 0.35 0.40 max 0.15 1.00 $0.55 \quad 0.35 \quad 0.30 \quad 0.35$ mm nom 1.35 min 0.12 1.30 0.95 0.27 0.32 Note 1. Including plating thickness. 2. Visible depending upon used manufacturing technology. sot1203\_po References Outline European Issue date version projection IEC JEDEC JEITA 10-04-02 SOT1203 $\blacksquare$ 10-04-06

Fig. 15. Package outline SOT1203 (XSON8)

### 13. Abbreviations

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

### 14. Revision history

#### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74AUP2G241 v.8	20190321	Product data sheet	-	74AUP2G241 v.7		
Modifications:	<ul> <li>The format of this data sheet has been redesigned to comply with the identity guid 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 SOT765-1 (VSSOP8) updated.</li> <li>Package outline drawing SOT902-2 (XQFN8) updated.</li> </ul>					
74AUP2G241 v.7	20130211	Product data sheet	-	74AUP2G241 v.6		
Modifications:	For type num	ber 74AUP2G241GD XSO	N8U has change	d to XSON8.		
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.

 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 <u>https://www.nexperia.com</u>.

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

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