Low-power dual buffer/line driver; 3-state Rev. 9 — 1 December 2020

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)
- 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_{CC}
- Input-disable feature allows floating input conditions
- I_{OFF} 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

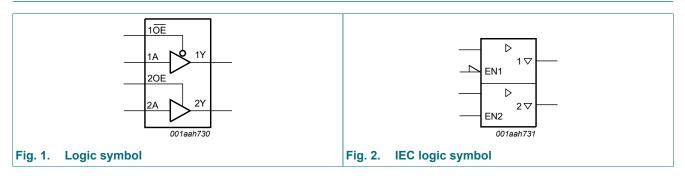
Type number	Package			
	Temperature range	Name	Description	Version
74AUP2G241DC	-40 °C to +125 °C	VSSOP8	plastic very thin shrink small outline package; 8 leads; body width 2.3 mm	SOT765-1
74AUP2G241GT	-40 °C to +125 °C	XSON8	plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm	SOT833-1
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					
74AUP2G241GN	p1					
74AUP2G241GS	p1					

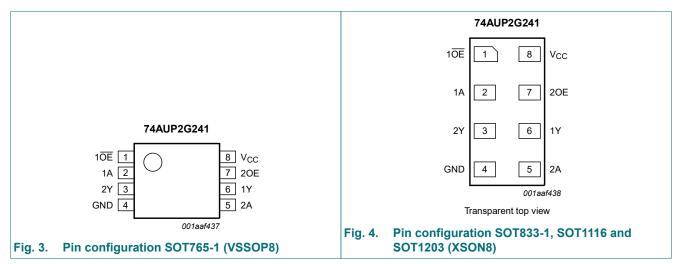
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

5. Functional diagram



6. Pinning information





6.2. Pin description

Symbol	Pin	Description
1 0E	1	output enable input 1OE (active LOW)
1A, 2A	2, 5	data input
1Y, 2Y	6, 3	data output
GND	4	ground (0 V)
20E	7	output enable input 2OE (active HIGH)
V _{CC}	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.

-		Output	Input		Output
1 0E 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 _{CC}	supply voltage		-0.5	+4.6	V
I _{IK}	input clamping current	V _I < 0 V	-50	-	mA
VI	input voltage	[1]	-0.5	+4.6	V
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
Vo	output voltage	Active mode and Power-down mode [1]	-0.5	+4.6	V
I _O	output current	$V_{O} = 0 V \text{ to } V_{CC}$	-	±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: Ptot derates linearly with 4.2 mW/K above 90 °C.

For SOT1203 (XSON8) package: Ptot 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				
VI	input voltage		0	3.6	V				
Vo	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				
Δt/ΔV	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	Тур	Max	Unit
T _{amb} = 2	5 °C		· · · · ·			
VIH	HIGH-level input	V _{CC} = 0.8 V	0.70V _{CC}	-	-	V
	voltage	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	V _{CC} = 0.8 V	-	-	0.30V _{CC}	V
	voltage	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	Тур	Мах	Unit
V _{OH}	HIGH-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	I_{O} = -20 µA; V_{CC} = 0.8 V to 3.6 V	V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.75V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	1.11	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.32	-	 - - - - - - - - - 0.1 0.3V_{CC} 0.31 0.31 0.31 0.31 0.44 0.31 0.44 1.10 ±0.1 ±0.1 ±0.2 ±0.2 ±0.2 110 110 110 110 1 - -	V
		I _O = -2.3 mA; V _{CC} = 2.3 V	2.05	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.9	-	-	V
		I _O = -2.7 mA; V _{CC} = 3.0 V	2.72	-	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.6	-	-	V
V _{OL}	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 _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.3V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.31	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.31	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.31	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.44	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.31	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.44	V
l _l	input leakage current V_I = GND to 3.6 V; V_{CC} = 0 V to 3		-	-	±0.1	μA
I _{OZ}	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 _{OFF}	power-off leakage current	$V_{I} \text{ or } V_{O} = 0 \text{ V to } 3.6 \text{ V; } V_{CC} = 0 \text{ V}$	-	-	±0.2	μA
ΔI _{OFF}	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
I _{CC}	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 _{CC}	additional supply current	data input; $V_1 = V_{CC} - 0.6 V$; $I_0 = 0 A$; [' $V_{CC} = 3.3 V$] -	-	40	μA
		1 \overline{OE} and 2 OE input; V _I = V _{CC} - 0.6 V; [7 I _O = 0 A; V _{CC} = 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	2] -	-	1	μA
Cı	input capacitance	V_{CC} = 0 V to 3.6 V; V _I = GND or V _{CC}	-	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 _{amb} = -4	40 °C to +85 °C					1
V _{IH}	HIGH-level input	V _{CC} = 0.8 V	0.70V _{CC}	-	-	V
	voltage	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	V _{CC} = 0.8 V	-	-	0.30V _{CC}	V
	voltage	V _{CC} = 0.9 V to 1.95 V	-	-		V
		V _{CC} = 2.3 V to 2.7 V	-	-		V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	V

Symbol	Parameter	Conditions		Min	Тур	Max	Unit
V _{OH}	HIGH-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$					
	voltage	I_{O} = -20 µA; V_{CC} = 0.8 V to 3.6 V		V _{CC} - 0.1	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V		0.7V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V		1.03	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V		1.30	-	$ \begin{array}{c c c c } $	V
		I _O = -2.3 mA; V _{CC} = 2.3 V		1.97	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V		1.85	-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	V
		I _O = -2.7 mA; V _{CC} = 3.0 V		2.67	-	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V		2.55	-	-	V
V _{OL}	LOW-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$					
	voltage	$I_{O} = 20 \ \mu A; V_{CC} = 0.8 \ V \text{ to } 3.6 \ V$		-	-	0.1	V
		I _O = 1.1 mA; V _{CC} = 1.1 V		-	-	0.3V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V		-	-	0.37	V
		I _O = 1.9 mA; V _{CC} = 1.65 V		-	-	0.35	V
		I _O = 2.3 mA; V _{CC} = 2.3 V		-	-	0.33	V
		I _O = 3.1 mA; V _{CC} = 2.3 V		-	-	0.45	V
		I _O = 2.7 mA; V _{CC} = 3.0 V		-	-	0.33	V
		I _O = 4.0 mA; V _{CC} = 3.0 V		-	-	0.45	V
l	input leakage current	V_1 = GND to 3.6 V; V_{CC} = 0 V to 3.6 V		-	-	±0.5	μA
I _{OFF}	power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V		-	-	±0.5	μA
I _{OZ}	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
ΔI _{OFF}	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
I _{CC}	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 _{CC}	additional supply current	data input; V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 3.3 V	[1]	-	-	50	μA
		$1\overline{OE}$ and 2OE input; V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 3.3 V	[1]	-	-	120	μA
		all inputs; V _I = GND to 3.6 V; $1\overline{OE} = V_{CC}$; 2OE = GND; V _{CC} = 0.8 V to 3.6 V	[2]	-	-	1	μA
T _{amb} = -	40 °C to +125 °C			L1			
VIH	HIGH-level input	V _{CC} = 0.8 V		0.75V _{CC}	-	-	V
	voltage	V _{CC} = 0.9 V to 1.95 V		0.70V _{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	V _{CC} = 0.8 V		-	-	0.25V _{CC}	V
	voltage	V _{CC} = 0.9 V to 1.95 V		-	-		V
		V _{CC} = 2.3 V to 2.7 V		-	-		V
		$V_{CC} = 3.0 \text{ V to } 3.6 \text{ V}$		-	_	0.9	V

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Symbol	Parameter	Conditions	Min	Тур	Мах	Unit
V _{OH}	HIGH-level output	$V_{I} = V_{IH} \text{ or } V_{IL}$				
	voltage	I_{O} = -20 µA; V_{CC} = 0.8 V to 3.6 V	V _{CC} - 0.11	-	-	V
		I _O = -1.1 mA; V _{CC} = 1.1 V	0.6V _{CC}	-	-	V
		I _O = -1.7 mA; V _{CC} = 1.4 V	0.93	-	-	V
		I _O = -1.9 mA; V _{CC} = 1.65 V	1.17	-	-	V
		I _O = -2.3 mA; V _{CC} = 2.3 V	1.77	-	-	V
		I _O = -3.1 mA; V _{CC} = 2.3 V	1.67	-	-	V
		I _O = -2.7 mA; V _{CC} = 3.0 V	2.40	-	-	V
		I _O = -4.0 mA; V _{CC} = 3.0 V	2.30	-	-	V
V _{OL}	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 _O = 1.1 mA; V _{CC} = 1.1 V	-	-	0.33V _{CC}	V
		I _O = 1.7 mA; V _{CC} = 1.4 V	-	-	0.41	V
		I _O = 1.9 mA; V _{CC} = 1.65 V	-	-	0.39	V
		I _O = 2.3 mA; V _{CC} = 2.3 V	-	-	0.36	V
		I _O = 3.1 mA; V _{CC} = 2.3 V	-	-	0.50	V
		I _O = 2.7 mA; V _{CC} = 3.0 V	-	-	0.36	V
		I _O = 4.0 mA; V _{CC} = 3.0 V	-	-	0.50	V
I	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.75	μA
I _{OZ}	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 _{OFF}	power-off leakage current	V_{I} or V_{O} = 0 V to 3.6 V; V_{CC} = 0 V	-	-	±0.75	μA
Δl _{OFF}	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
I _{CC}	supply current	$V_{I} = GND \text{ or } V_{CC}; I_{O} = 0 \text{ A};$ $V_{CC} = 0.8 \text{ V to } 3.6 \text{ V}$	-	-	1.4	μA
ΔI _{CC}	additional supply current	data input; V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 3.3 V	[1] -	-	75	μA
		1 $\overline{\text{OE}}$ and 2 $\overline{\text{OE}}$ input; V _I = V _{CC} - 0.6 V; I _O = 0 A; V _{CC} = 3.3 V	[1] -	-	180	μA
		all inputs; V _I = GND to 3.6 V; $1\overline{OE} = V_{CC}$; 2OE = GND; V _{CC} = 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. To show I_{CC} remains very low when the input-disable feature is enabled. [2]

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,	_{amb} = 25	°C	T _{an} -40 °C te	_{nb} = o +85 °C	T _{ai} -40 °C te	_{mb} = c +125 °C	Unit
			Min	Typ[1]	Мах	Min	Max	Min	Max	
C _L = 5 p	F									
t _{pd}	propagation	nA to nY; see Fig. 5 [2]								
	delay	V _{CC} = 0.8 V	-	20.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.8	5.5	10.5	2.5	11.7	2.5	12.9	ns
		V _{CC} = 1.4 V to 1.6 V	2.2	3.9	6.1	2.0	7.3	2.0	8.1	ns
		V _{CC} = 1.65 V to 1.95 V	1.9	3.2	4.8	1.7	6.1	1.7	6.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.6	2.6	3.6	1.4	4.3	1.4	4.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	2.4	3.1	1.2	3.9	1.2	4.4	ns
t _{en}	enable time	1OE to 1Y; see Fig. 6 [3]								
		V _{CC} = 0.8 V	-	69.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.1	6.1	11.8	2.9	13.9	2.9	15.4	ns
		V _{CC} = 1.4 V to 1.6 V	2.5	4.2	6.6	2.3	7.7	2.3	8.3	ns
		V _{CC} = 1.65 V to 1.95 V	2.1	3.4	5.1	2.0	6.2	2.0	.0 6.8 ns .7 5.0 ns	ns
	V	V _{CC} = 2.3 V to 2.7 V	1.8	2.6	3.7	1.7	4.5	1.7	5.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.7	2.4	3.1	1.7	3.5	1.7	8.3 ns 6.8 ns 5.0 ns 3.9 ns - ns 13.6 ns 7.7 ns 6.2 ns	
		2OE to 2Y; see Fig. 7 [3]								
		V _{CC} = 0.8 V	-	71.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.8	6.2	12.4	2.6	13.6	2.6	13.6	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.2	6.9	2.2	7.4	2.2	7.7	ns
		V _{CC} = 1.65 V to 1.95 V	1.9	3.3	5.3	1.7	5.9	1.7	6.2	ns
		V _{CC} = 2.3 V to 2.7 V	1.5	2.4	3.6	1.4	3.8	1.4	4.1	ns
		V _{CC} = 3.0 V to 3.6 V	1.3	2.0	2.9	1.2	3.2	1.2	3.4	ns
t _{dis}	disable time	10E to 1Y; see Fig. 6 [4]								
		V _{CC} = 0.8 V	-	14.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.7	4.3	6.5	2.7	7.3	2.7	8.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.1	3.2	4.4	2.1	5.1	2.1	5.7	ns
		V _{CC} = 1.65 V to 1.95 V	2.0	3.0	4.3	2.0	5.0	2.0	5.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.4	2.2	2.9	1.4	3.3	1.4	4.1	ns
		V _{CC} = 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]								8.2 ns 5.7 ns 5.7 ns 4.1 ns 3.9 ns
		V _{CC} = 0.8 V	-	10.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.6	4.2	6.2	2.9	6.4	2.9	6.5	ns
		V _{CC} = 1.4 V to 1.6 V	2.1	3.2	4.4	2.2	4.6	2.2	4.7	ns
		V _{CC} = 1.65 V to 1.95 V	2.1	3.1	4.4	1.7	4.6	1.7	4.8	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	2.4	3.2	1.4	3.4	1.4	3.6	ns
		V _{CC} = 3.0 V to 3.6 V	2.1	2.8	3.6	1.2	3.7	1.2	3.8	ns

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Symbol	Parameter	Conditions	T,	_{amb} = 25	°C	T _{ar} -40 °C t	_{nb} = o +85 °C	T _{ar} -40 °C to	_{mb} = c +125 °C	Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
C _L = 10	pF	·							·	
t _{pd}	propagation	nA to nY; see Fig. 5 [2]								
	delay	V _{CC} = 0.8 V	-	24.0	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.2	6.4	12.3	3.0	13.8	3.0	15.2	ns
		V _{CC} = 1.4 V to 1.6 V	2.1	4.5	7.3	1.9	8.5	1.9	9.4	ns
		V _{CC} = 1.65 V to 1.95 V	1.9	3.8	5.5	1.7	6.8	1.7	7.6	ns
		V _{CC} = 2.3 V to 2.7 V	2.1	3.2	4.2	1.6	5.3	1.6	5.9	ns
		V _{CC} = 3.0 V to 3.6 V	1.8	3.0	3.8	1.6	4.6	1.6	5.2	ns
t _{en}	enable time	10E to 1Y; see Fig. 6 [3]								
		V _{CC} = 0.8 V	-	73.7	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.6	6.9	13.5	3.4	15.8	3.4	17.5	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.8	7.7	2.2	8.6	2.2	9.4	ns
		V _{CC} = 1.65 V to 1.95 V	2.0	3.9	5.8	1.9	6.8	1.9	7.4	ns
		V _{CC} = 2.3 V to 2.7 V	1.8	3.2	4.3	1.7	5.3	1.7	5.9	ns
		V _{CC} = 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 _{CC} = 0.8 V	-	75.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.2	7.1	14.1	3.0	15.4	3.0	15.4	ns
		V _{CC} = 1.4 V to 1.6 V	2.2	4.8	8.0	2.1	8.3	2.1	8.6	ns
		V _{CC} = 1.65 V to 1.95 V	1.8	3.9	5.9	1.7	6.5	1.7	6.8	ns
		V _{CC} = 2.3 V to 2.7 V	1.5	2.9	4.2	1.4	4.5	1.4	4.8	ns
		V _{CC} = 3.0 V to 3.6 V	1.4	2.6	3.6	1.3	3.8	1.3	4.0	ns
t _{dis}	disable time	10E to 1Y; see Fig. 6 [4]								
		V _{CC} = 0.8 V	-	32.7	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.4	5.4	7.9	3.4	8.8	3.4	9.9	ns
		V _{CC} = 1.4 V to 1.6 V	2.2	4.1	5.5	2.2	6.2	2.2	7.1	ax I I IS .2 IS .2 IS 4 IS 6 IS 9 IS 9 IS 2 IS 9 IS 1 IS 4 IS 4 IS 4 IS 4 IS 4 IS 4 IS 5 IS 6 IS 8 IS 9 IS 6 IS 9 IS 1 IS 1 IS 1 IS 1 IS 1 IS 9 IS 9 IS 9 IS 9 IS 9 IS 9 IS 1 IS <tr td=""></tr>
		V _{CC} = 1.65 V to 1.95 V	2.2	4.2	5.6	1.9	6.3	1.9	7.1	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	3.0	3.8	1.7	4.5	1.7	5.1	ns
		V _{CC} = 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 _{CC} = 0.8 V	-	12.2	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.5	5.3	7.6	3.3	7.9	3.3	7.9	ns
		V _{CC} = 1.4 V to 1.6 V	2.2	4.1	5.6	2.1	5.7	2.1	5.9	ns
		V _{CC} = 1.65 V to 1.95 V	2.4	4.2	5.7	1.7	5.8	1.7	6.0	ns
		V _{CC} = 2.3 V to 2.7 V	1.9	3.2	4.1	1.4	4.3	1.4	4.5	ns
		V _{CC} = 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 °C			T _{amb} = -40 °C to +85 °C		T _{amb} = -40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Min Max	Min	Max	
C _L = 15	pF									
t _{pd}	propagation	nA to nY; see <u>Fig. 5</u> [2]								
	delay	V _{CC} = 0.8 V	-	27.4	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.6	7.2	14.1	3.3	15.8	3.3	17.5	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	5.1	8.1	2.5	9.8	2.5	10.9	ns
		V _{CC} = 1.65 V to 1.95 V	2.2	4.3	6.3	2.0	7.9	2.0	8.8	ns
		V _{CC} = 2.3 V to 2.7 V	2.0	3.7	4.9	1.8	6.0	1.8	6.7	ns
		V _{CC} = 3.0 V to 3.6 V	2.0	3.5	4.4	1.8	5.4	1.8	6.1	ns
t _{en}	enable time	10E to 1Y; see Fig. 6 [3]								
		V _{CC} = 0.8 V	-	77.5	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.0	7.7	15.2	3.7	17.6	3.7	19.6	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	5.3	8.4	2.5	9.8	2.5	10.7	ns
		V _{CC} = 1.65 V to 1.95 V	2.3	4.4	6.5	2.1	7.7	2.1	8.5	ns
		V _{CC} = 2.3 V to 2.7 V	2.1	3.6	5.0	2.0	6.1	2.0	6.8	ns
		V _{CC} = 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 _{CC} = 0.8 V	-	79.2	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.6	7.8	15.8	3.3	17.1	3.3	17.1	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	5.4	8.8	2.9	9.4	2.9	9.7	ns
		V _{CC} = 1.65 V to 1.95 V	2.1	4.3	6.7	2.0	7.3	2.0	7.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.8	3.4	4.8	1.7	5.2	1.7	5.6	ns
		V _{CC} = 3.0 V to 3.6 V	1.6	3.1	4.3	1.5	4.5	1.5	4.7	ns
t _{dis}	disable time	10E to 1Y; see Fig. 6 [4]								
		V _{CC} = 0.8 V	-	60.8	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.3	6.5	9.2	3.7	10.3	3.7	11.6	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	5.0	6.5	2.5	7.4	2.5	8.4	ns
		V _{CC} = 1.65 V to 1.95 V	3.0	5.3	6.6	2.1	7.4	2.1	8.9	ns
		V _{CC} = 2.3 V to 2.7 V	2.1	3.8	4.9	2.0	5.1	2.0	6.4	ns
		V _{CC} = 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 _{CC} = 0.8 V	-	14.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.3	6.4	8.5	3.7	9.3	3.7	9.4	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	5.0	6.6	2.5	6.9	2.5	7.0	ns
		V _{CC} = 1.65 V to 1.95 V	3.1	5.4	6.6	2.0	7.4	2.0	7.5	ns
		V _{CC} = 2.3 V to 2.7 V	2.4	4.0	5.0	1.7	5.1	1.7	5.5	ns
		V _{CC} = 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 _{amb} = 25 °C			T _{amb} = -40 °C to +85 °C		T _{amb} = -40 °C to +125 °C		Unit
			Min Typ[1] Max Min Max M	Min	Max					
C _L = 30	pF									
t _{pd}	propagation	nA to nY; see <u>Fig. 5</u> [2]								
	delay	V _{CC} = 0.8 V	-	37.4	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.8	9.5	19.0	4.4	21.6	4.4	24.0	ns
		V _{CC} = 1.4 V to 1.6 V	4.0	6.7	10.8	3.0	13.0	3.0	14.5	ns
		V _{CC} = 1.65 V to 1.95 V	2.9	5.6	8.4	2.6	10.3	2.6	11.5	ns
		V _{CC} = 2.3 V to 2.7 V	2.7	4.8	6.3	2.5	7.8	2.5	8.7	ns
		V _{CC} = 3.0 V to 3.6 V	2.7	4.6	5.8	2.5	7.0	2.5	8.3	ns
t _{en}	enable time	10E to 1Y; see Fig. 6 [3]								
		V _{CC} = 0.8 V	-	88.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	5.2	9.9	19.8	4.8	22.8	4.8	25.3	ns
		V _{CC} = 1.4 V to 1.6 V	4.0	6.8	10.8	3.1	12.6	3.1	14.1	ns
		V _{CC} = 1.65 V to 1.95 V	3.0	5.6	8.5	2.8	10.2	2.8	11.3	ns
		V _{CC} = 2.3 V to 2.7 V	2.7	4.8	6.5	2.6	7.8	2.6	8.8	ns
		V _{CC} = 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 _{CC} = 0.8 V	-	90.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.7	10.0	20.4	4.3	22.0	4.3	22.0	ns
		V _{CC} = 1.4 V to 1.6 V	3.0	6.9	11.3	3.7	12.0	3.7	12.5	ns
		V _{CC} = 1.65 V to 1.95 V	2.6	5.6	8.6	3.2	9.5	3.2	10.1	ns
		V _{CC} = 2.3 V to 2.7 V	2.3	4.5	6.3	2.9	6.8	2.9	7.3	ns
		V _{CC} = 3.0 V to 3.6 V	2.2	4.2	5.8	2.7	6.4	2.7	6.7	ns
t _{dis}	disable time	10E to 1Y; see Fig. 6 [4]								
		V _{CC} = 0.8 V	-	49.9	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	6.0	9.9	13.3	4.8	14.8	4.8	16.5	ns
		V _{CC} = 1.4 V to 1.6 V	4.4	7.7	9.6	3.1	10.7	3.1	12.1	ns
		V _{CC} = 1.65 V to 1.95 V	5.1	8.7	11.1	2.8	12.4	2.8	13.8	ns
		V _{CC} = 2.3 V to 2.7 V	3.6	6.2	7.4	2.6	8.6	2.6	9.6	ns
		V _{CC} = 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 _{CC} = 0.8 V	-	51.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	6.0	9.8	13.6	4.7	14.3	4.7	14.4	ns
		V _{CC} = 1.4 V to 1.6 V	4.5	7.7	10.5	3.0	10.7	3.0	11.0	ns
		V _{CC} = 1.65 V to 1.95 V	5.2	8.8	11.4	2.6	11.5	2.6	11.6	ns
		V _{CC} = 2.3 V to 2.7 V	3.9	6.4	7.4	2.3	9.0	2.3	10.2	ns
		V _{CC} = 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 _{amb} = 25 °C		T _{amb} = -40 °C to +85 °C		T _{amb} = -40 °C to +125 °C		Unit		
			Min	Typ[1]	Max	Min	Max	Min	Max		
C _L = 5 pl	F, 10 pF, 15 p	F and 30 pF									
C _{PD}	power	f = 1 MHz; V_I = GND to V_{CC} [5]									
	dissipation capacitance	V _{CC} = 0.8 V	-	2.8	-	-	-	-	-	pF	
		V _{CC} = 1.1 V to 1.3 V	-	2.8	-	-	-	-	-	pF	
		V _{CC} = 1.4 V to 1.6 V	-	3.0	-	-	-	-	-	pF	
			V _{CC} = 1.65 V to 1.95 V	-	3.0	-	-	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.7	-	-	-	-	-	pF	
		V _{CC} = 3.0 V to 3.6 V	-	4.2	-	-	-	-	-	pF	

All typical values are measured at nominal V_{CC}. [1]

 t_{pd} is the same as t_{PLH} and t_{PHL} . [2]

[3] t_{en}^{r} is the same as t_{PZH} and t_{PZL} .

[4]

 t_{dis} is the same as t_{PHZ} and t_{PLZ} . C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). [5]

 $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz;

 f_o = output frequency in MHz;

 C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

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

11.1. Waveforms and test circuit

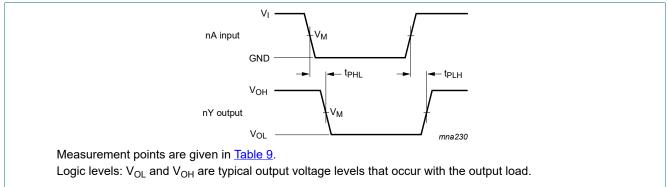
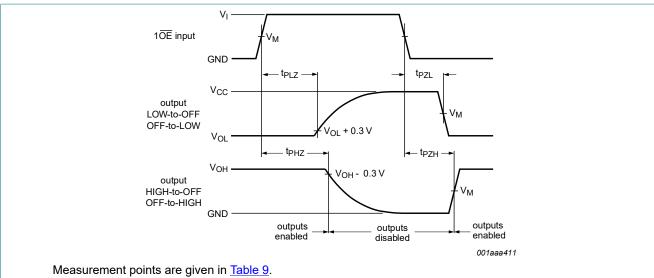


Fig. 5. The data input (nA) to output (nY) propagation delays

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



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

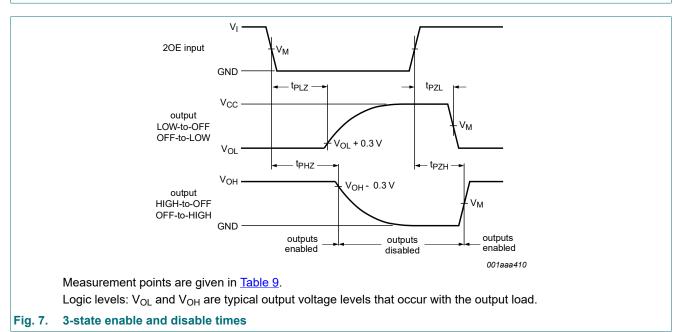


Table 9. Measurement points

Supply voltage	Input	nput		Output		
V _{cc}	V _M	VI	t _r = t _f	V _M	Vx	VY
0.8 V to 1.6 V	$0.5 \times V_{CC}$	V _{CC}	≤ 3.0 ns	0.5 × 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}	≤ 3.0 ns	0.5 × 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}	≤ 3.0 ns	0.5 × V _{CC}	V _{OL} + 0.3 V	V _{OH} - 0.3 V

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

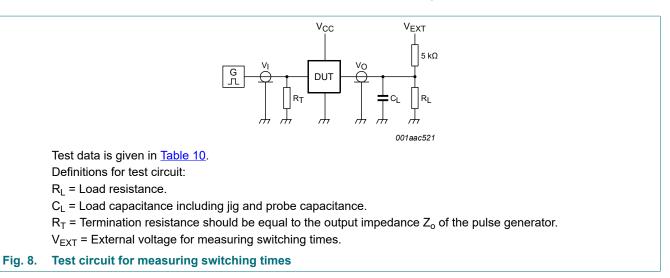


Table 10. Test data

Supply voltage	Load	V _{EXT}			
V _{CC}	CL	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	$5 \text{ k}\Omega$ or $1 \text{ M}\Omega$	open	GND	2 × V _{CC}

[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 Ω .

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12. Package outline

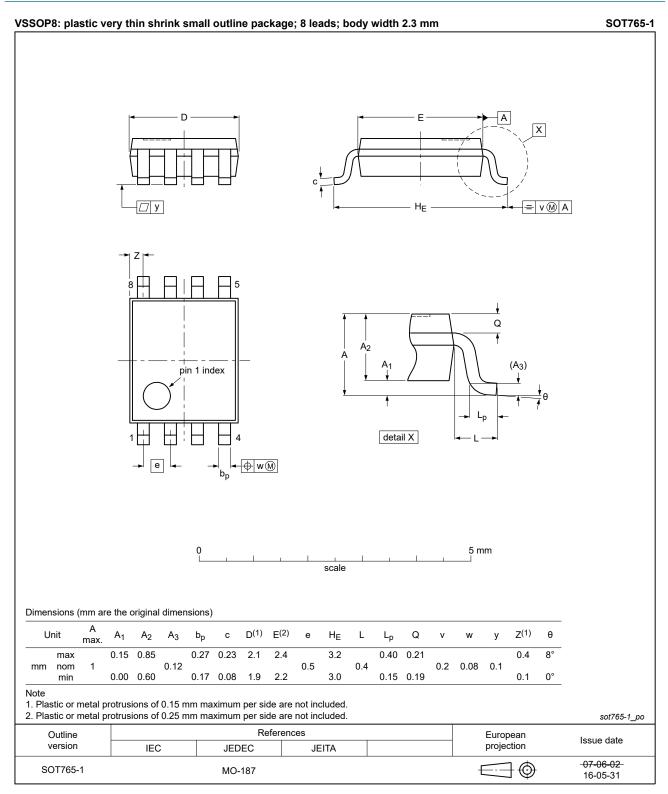


Fig. 9. Package outline SOT765-1 (VSSOP8)

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

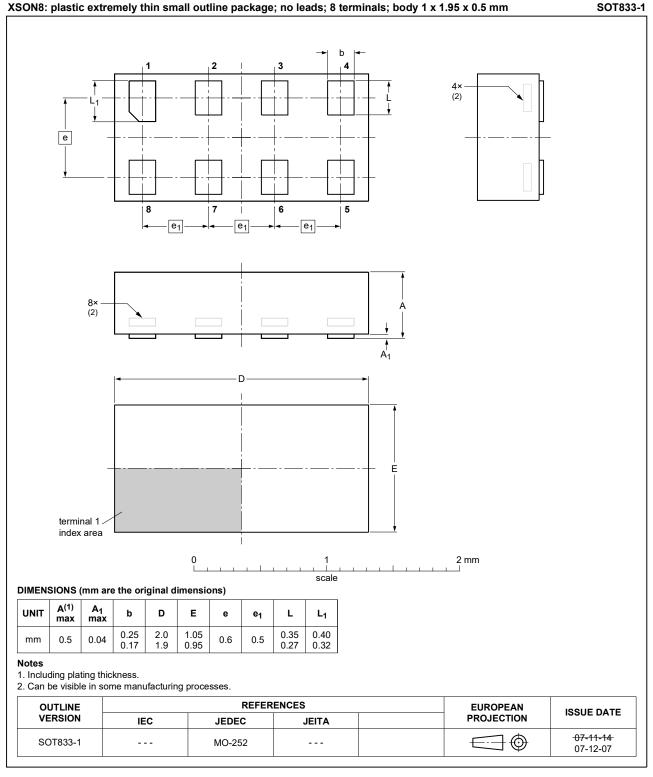


Fig. 10. Package outline SOT833-1 (XSON8)

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

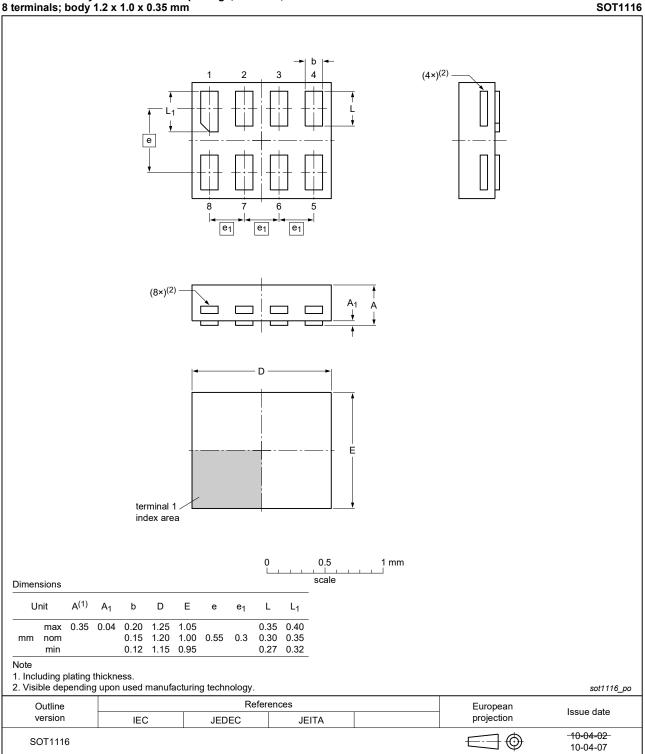


Fig. 11. Package outline SOT1116 (XSON8)

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×)⁽²⁾ 4 2 3 е 8 6 e₁ e₁ e₁ $(8 \times)^{(2)}$ А С С ٦ D E terminal 1 index area 0.5 1 mm 0 1 1 1 scale Dimensions Unit A⁽¹⁾ A₁ b D Е L е e₁ L_1 0.35 0.04 0.20 1.40 1.05 0.35 0.40 max 0.15 1.00 0.55 0.35 0.30 0.35mm nom 1.35 1.30 0.95 min 0.12 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. 12. 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.9	20201201	Product data sheet	-	74AUP2G241 v.8			
Modifications:				have been updated. 74AUP2G241GM (SOT902-2/			
74AUP2G241 v.8	20190321	Product data sheet	-	74AUP2G241 v.7			
Modifications:	of Nexperia. • Legal texts • Type numbe • Package ou		new company nam N8/SOT996-2) rem VSSOP8) updated.	oved.			
74AUP2G241 v.7	20130211	Product data sheet	-	74AUP2G241 v.6			
Modifications:	For type nur	For type number 74AUP2G241GD XSON8U has changed 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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