1. General description

The 74AUP3G0434 is a dual inverter and single buffer.

Schmitt trigger action at all inputs makes the circuit tolerant of 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 a damaging backflow current through the device when it is powered down.

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 μA (maximum)
- Latch-up performance exceeds 100 mA per JESD 78B Class II
- Inputs accept voltages up to 3.6 V
- Low noise overshoot and undershoot < 10 % of V_{CC}
- 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



Low-power dual inverter and single buffer

3. Ordering information

Table 1. Ordering information

Type number	Package							
Temperature range Name Description 4AUP3G0434DC -40 °C to +125 °C VSSOP8 plastic very thin shrink small outline package; 8 leads; body width 2.3 mm 4AUP3G0434GT -40 °C to +125 °C XSON8 plastic extremely thin small outline package; no leads; 8 terminals; body 1 × 1.95 × 0.5 mm			Version					
74AUP3G0434DC	-40 °C to +125 °C	VSSOP8	1.	SOT765-1				
74AUP3G0434GT	-40 °C to +125 °C	XSON8	, , ,	SOT833-1				
74AUP3G0434GN	-40 °C to +125 °C	XSON8		SOT1116				
74AUP3G0434GS	-40 °C to +125 °C	XSON8	extremely thin small outline package; no leads; 8 terminals; body 1.35 × 1.0 × 0.35 mm	SOT1203				

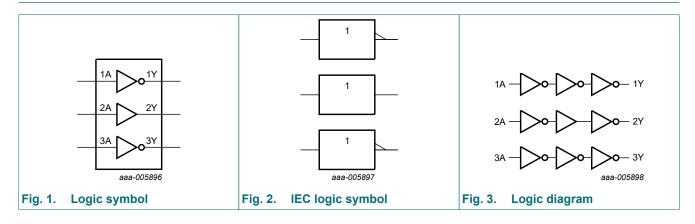
4. Marking

Table 2. Marking codes

Type number	Marking code[1]
74AUP3G0434DC	pΖ
74AUP3G0434GT	pΖ
74AUP3G0434GN	pΖ
74AUP3G0434GS	pΖ

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

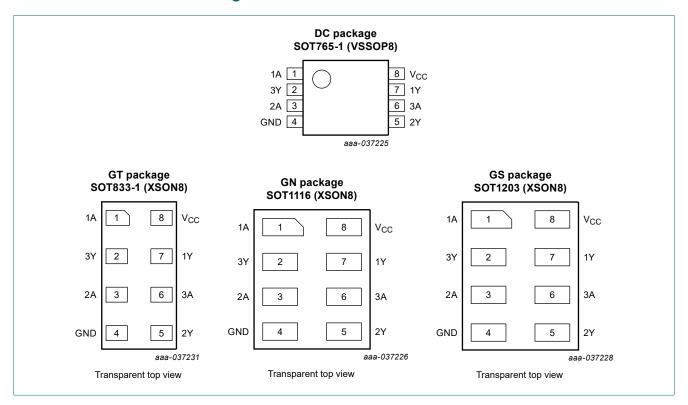
5. Functional diagram



Low-power dual inverter and single buffer

6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. Pin description

Symbol	Pin	Description
1A, 2A, 3A	1, 3, 6	data input
1Y, 2Y, 3Y	7, 5, 2	data output
GND	4	ground (0 V)
V _{CC}	8	supply voltage

7. Functional description

Table 4. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$

Input	Output
1A, 3A	1Y, 3Y
L	Н
Н	L

Low-power dual inverter and single buffer

Table 5. Function table

 $H = HIGH \ voltage \ level; \ L = LOW \ voltage \ level.$

Input	Output
2A	2Y
L	L
Н	Н

8. Limiting values

Table 6. 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
Io	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	$T_{amb} = -40 ^{\circ}\text{C} \text{ to } +125 ^{\circ}\text{C}$ [2]	-	250	mW

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

For SOT1116 (XSON8) package: P $_{\rm tot}$ derates linearly with 4.2 mW/K above 90 $^{\circ}\text{C}.$

For SOT1203 (XSON8) package: Ptot derates linearly with 3.6 mW/K above 81 °C.

9. Recommended operating conditions

Table 7. 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	-	200	ns/V

^[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.

Low-power dual inverter and single buffer

10. Static characteristics

Table 8. Static characteristics

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

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = 2	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
V _{OH}	HIGH-level output voltage	$V_{I} = V_{IH}$ or V_{IL}				
Tamb = 25 ° VIH H VIL L VOH H VOL L II in IOFF ac CI ac ICC st		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
V _{OL}		I _O = -1.9 mA; V _{CC} = 1.65 V	1.32	-	-	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 voltage	$V_I = V_{IH}$ or V_{IL}				
		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
Vol. Vol. II Ioff Aloff Icc Alcc		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 3.6 V	-	-	±0.1	μA
I _{OFF}	power-off leakage current	V_{I} or $V_{O} = 0$ V to 3.6 V; $V_{CC} = 0$ 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	μΑ
I _{CC}	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	0.5	μΑ
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	40	μA
Cı	input capacitance	$V_{CC} = 0 \text{ V to } 3.6 \text{ V; } V_I = \text{GND or } V_{CC}$	-	1.0	-	pF
Co	output capacitance	$V_O = GND; V_{CC} = 0 V$	-	1.8	-	pF

Low-power dual inverter and single buffer

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +85 °C					
V _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	0.70V _{CC}	-	-	V
V _{IL} VOH		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 _{ОН}		V _{CC} = 2.3 V to 2.7 V	-	-	0.7	V
		V _{CC} = 3.0 V to 3.6 V	-	-	0.9	V
V _{OH}	HIGH-level output voltage	$V_I = V_{IH}$ or V_{IL}				
V _{IL} L V _{OL} C C C C C C C C C		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	-	-	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	-	-	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
	LOW-level output voltage	$V_I = V_{IH}$ or V_{IL}				
		I _O = 20 μA; V _{CC} = 0.8 V to 3.6 V	-	-	0.1	V
/ _{IL} / _{OH} I OFF LI _{OFF}		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
ı	input leakage current	V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V	-	-	±0.5	μA
OFF	power-off leakage current	V _I or V _O = 0 V to 3.6 V; V _{CC} = 0 V	-	-	±0.5	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	-	-	0.30V _{CC} - 0.35V _{CC} - 0.7 - 0.9	
lcc	supply current	V_I = GND or V_{CC} ; I_O = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	0.9	μΑ
ΔI _{CC}	additional supply current	$V_1 = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	50	μA

Low-power dual inverter and single buffer

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
T _{amb} = -	40 °C to +125 °C				1	
V _{IH}	HIGH-level input voltage	V _{CC} = 0.8 V	0.75V _{CC}	-	-	V
		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	0.75V _{CC}	V		
V _{IL}	LOW-level input voltage	V _{CC} = 0.8 V	-	-	0.25V _{CC}	V
		V _{CC} = 0.9 V to 1.95 V	-	-	0.30V _{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
V _{OH}	HIGH-level output voltage	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
V _{IL} L V _{OL} L V _{OL} L V _{OL} ξ Δ _{IOFF} ξ		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}	$I_{O} = -3.1 \text{ mA; } V_{CC} = 2.3 \text{ V} \\ I_{O} = -2.7 \text{ mA; } V_{CC} = 3.0 \text{ V} \\ I_{O} = -4.0 \text{ mA; } V_{CC} = 3.0 \text{ V} \\ 2.40 \\ - \\ I_{O} = -4.0 \text{ mA; } V_{CC} = 3.0 \text{ V} \\ 2.30 \\ - \\ - \\ OW\text{-level output voltage}$ $V_{I} = V_{IH} \text{ or } V_{IL} \\ I_{O} = 20 \mu\text{A; } V_{CC} = 0.8 \text{ V to } 3.6 \text{ V} \\ - \\ - \\ 0.11$					
		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
V _{IL} V _{OH} I OFF ΔI _{OFF} CC		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
l _l	input leakage current	V_{I} = GND to 3.6 V; V_{CC} = 0 V to 3.6 V	-	-	±0.75	μA
I _{OFF}	power-off leakage current	V_1 or $V_0 = 0$ V to 3.6 V; $V_{CC} = 0$ V	-	-	±0.75	μA
	additional power-off leakage current		-	-		
I _{CC}	supply current	V_{I} = GND or V_{CC} ; I_{O} = 0 A; V_{CC} = 0.8 V to 3.6 V	-	-	1.4	μΑ
ΔI _{CC}	additional supply current	$V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A}; V_{CC} = 3.3 \text{ V}$	-	-	75	μA

Low-power dual inverter and single buffer

11. Dynamic characteristics

Table 9. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); for test circuit see Fig. 5.

Symbol	Parameter	Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
			Min	Typ[1]	Max	Min	Max	Min	Max	
C _L = 5 p	F									
t _{pd}	propagation delay	nA to nY; see Fig. 4 [2]								
		V _{CC} = 0.8 V	-	16.0	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.4	5.0	10.3	2.0	11.4	2.0	12.6	ns
		V _{CC} = 1.4 V to 1.6 V	1.8	3.6	6.4	1.6	7.4	1.6	8.2	ns
		V _{CC} = 1.65 V to 1.95 V	1.5	2.9	5.0	1.4	5.9	1.4	6.5	ns
		V _{CC} = 2.3 V to 2.7 V	1.2	2.4	3.9	1.1	4.5	1.1	5.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.1	2.1	3.2	1.0	3.9	1.0	4.3	ns
C _L = 10	pF									
t _{pd}	propagation delay	nA to nY; see Fig. 4 [2]								
		V _{CC} = 0.8 V	-	19.8	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	2.8	5.9	12.2	2.3	13.7	2.3	15.1	ns
		V _{CC} = 1.4 V to 1.6 V	2.3	4.2	7.5	1.9	8.7	1.9	9.6	ns
		V _{CC} = 1.65 V to 1.95 V	2.0	3.5	5.9	1.7	7.0	1.7	7.7	ns
		V _{CC} = 2.3 V to 2.7 V	1.7	2.9	4.6	1.5	5.4	1.5	6.0	ns
		V _{CC} = 3.0 V to 3.6 V	1.6	2.7	3.8	1.4	4.5	1.4	5.1	ns
C _L = 15	pF									
t _{pd}	propagation delay	nA to nY; see Fig. 4 [2]								
		V _{CC} = 0.8 V	-	23.3	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	3.2	6.7	13.0	2.6	15.8	2.6	17.4	ns
		V _{CC} = 1.4 V to 1.6 V	2.6	4.7	8.6	2.2	10.0	2.2	11.0	ns
		V _{CC} = 1.65 V to 1.95 V	2.3	4.0	6.7	2.0	8.0	2.0	8.8	ns
		V _{CC} = 2.3 V to 2.7 V	2.1	3.3	5.1	1.8	6.1	1.8	6.8	ns
		V _{CC} = 3.0 V to 3.6 V	2.0	3.1	4.2	1.6	5.0	1.6	5.5	ns
C _L = 30	pF									
t _{pd}	propagation delay	nA to nY; see Fig. 4 [2]								
		V _{CC} = 0.8 V	-	33.6	-	-	-	-	-	ns
		V _{CC} = 1.1 V to 1.3 V	4.4	8.9	16.3	3.6	19.0	3.6	20.9	ns
		V _{CC} = 1.4 V to 1.6 V	3.6	6.3	10.8	3.2	12.9	3.2	14.2	ns
		V _{CC} = 1.65 V to 1.95 V	3.2	5.3	9.0	2.9	10.5	2.9	11.6	ns
		V _{CC} = 2.3 V to 2.7 V	2.9	4.5	6.5	2.6	7.6	2.6	8.5	ns
		V _{CC} = 3.0 V to 3.6 V	2.9	4.2	5.6	2.5	6.2	2.5	7.2	ns

Low-power dual inverter and single buffer

Symbol	Parameter	Conditions		25 °C			-40 °C to +85 °C		-40 °C to +125 °C	
			Min	Typ[1]	Max	Min	Max	Min	Max	
$C_L = 5 pF$, 10 pF, 15 pF and 30 pF										
C _{PD}	power dissipation capacitance	f_i = 1 MHz; [3] [4] V_I = GND to V_{CC}								
		V _{CC} = 0.8 V	-	2.5	-	-	-	-	-	pF
		V _{CC} = 1.1 V to 1.3 V	-	2.7	-	-	-	-	-	pF
		V _{CC} = 1.4 V to 1.6 V	-	2.8	-	-	-	-	-	pF
		V _{CC} = 1.65 V to 1.95 V	-	3.0	-	-	-	-	-	pF
		V _{CC} = 2.3 V to 2.7 V	-	3.5	-	-	-	-	-	pF
		V _{CC} = 3.0 V to 3.6 V	-	4.0	-	-	-	-	-	pF

- All typical values are measured at nominal V_{CC}.
- t_{pd} is the same as t_{PLH} and t_{PHL} . All specified values are the average typical values over all stated loads. [3]
- C_{PD} is used to determine the dynamic power dissipation (P_D 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;

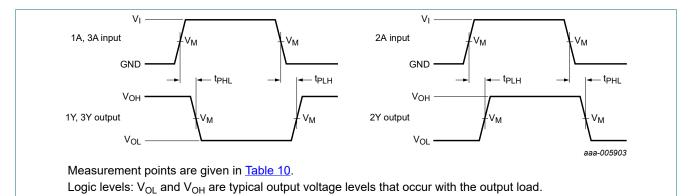
f_o = output frequency in MHz;

C_L = load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching; $\Sigma (C_L \times V_{CC}^{\ 2} \times f_o) = \text{sum of the outputs}.$

11.1. Waveforms and test circuit

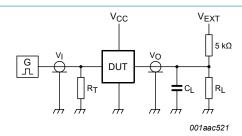


The data input 1A to output 1Y, input 2A to output 2Y and input 3A to output 3Y propagation delays Fig. 4.

Table 10. Measurement points

Supply voltage	Output	Input		
V _{CC}	V _M	V _M	V _I	$t_r = t_f$
0.8 V to 3.6 V	0.5V _{CC}	0.5V _{CC}	V _{CC}	≤ 3.0 ns

Low-power dual inverter and single buffer



Test data is given in Table 11.

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. 5. Test circuit for measuring switching times

Table 11. 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 kΩ or 1 MΩ	open	GND	2V _{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, $R_L = 1 \text{ M}\Omega$.

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12. Package outline

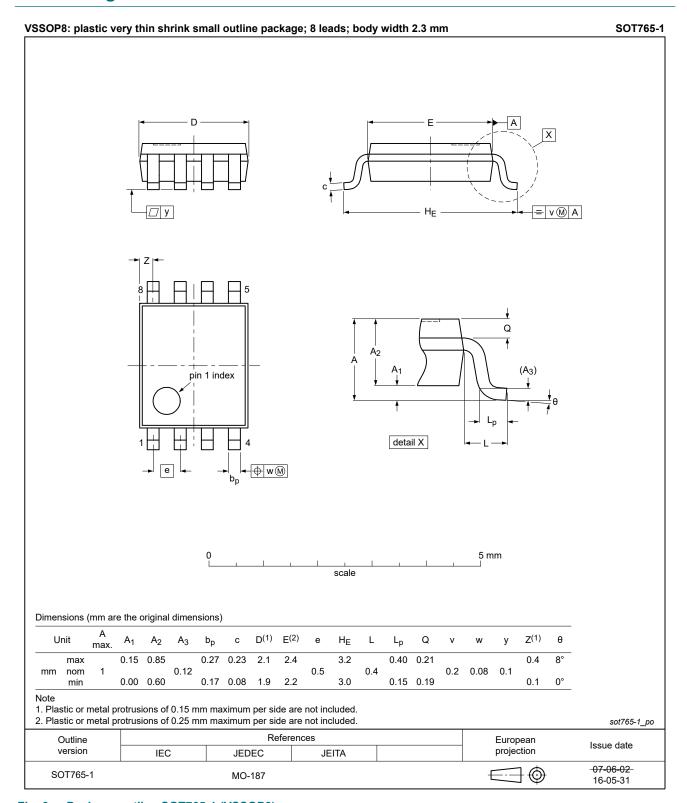


Fig. 6. Package outline SOT765-1 (VSSOP8)

Product data sheet

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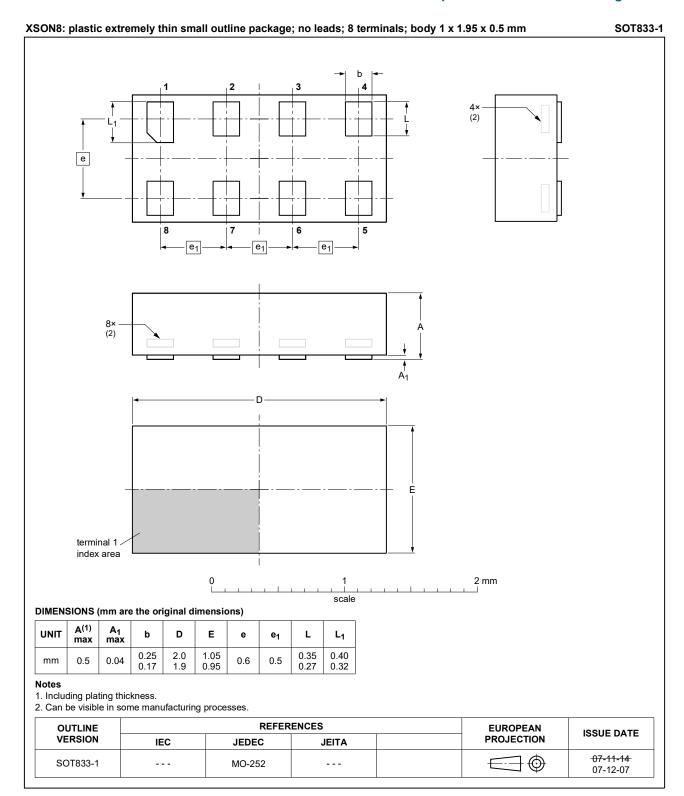


Fig. 7. Package outline SOT833-1 (XSON8)

Product data sheet

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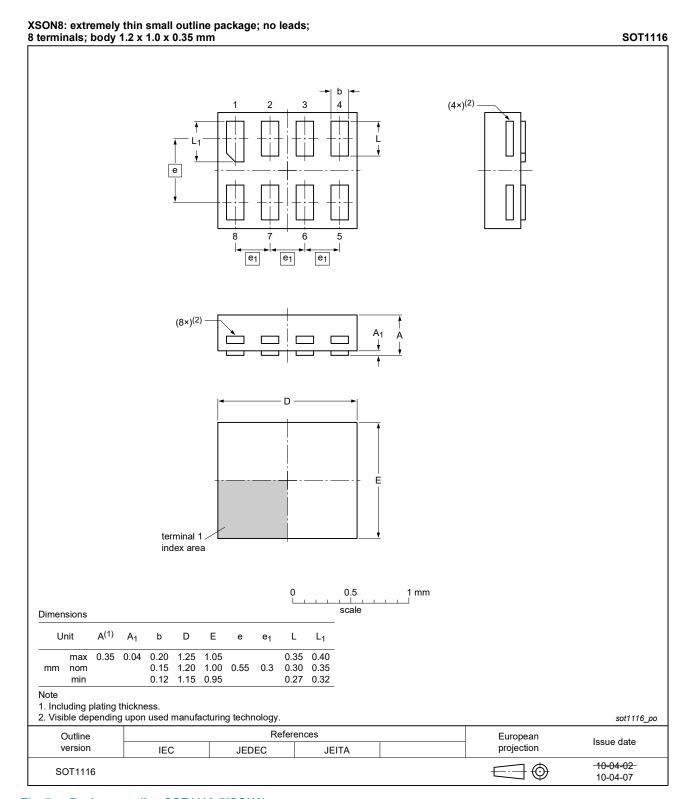


Fig. 8. Package outline SOT1116 (XSON8)

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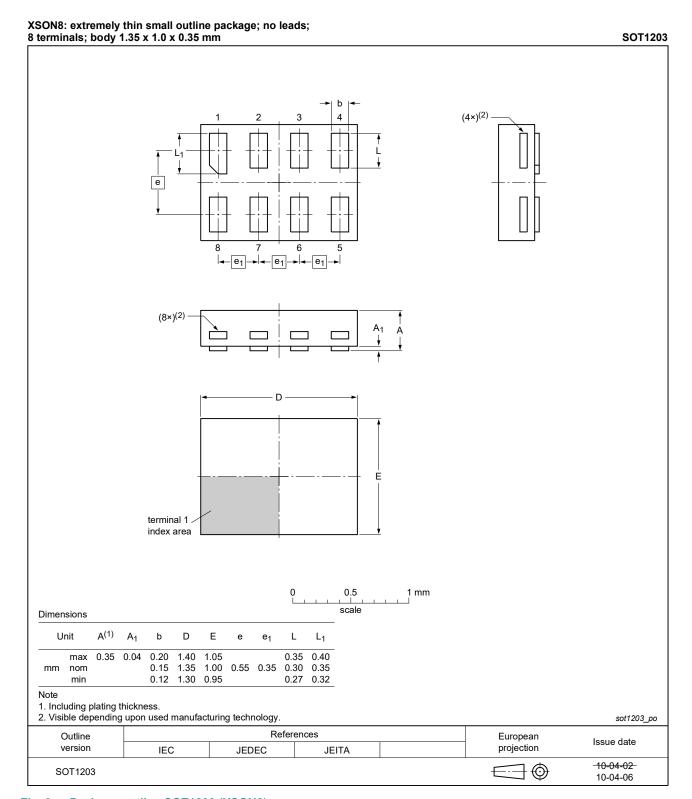


Fig. 9. Package outline SOT1203 (XSON8)

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13. Abbreviations

Table 12. Abbreviations

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

14. Revision history

Table 13. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74AUP3G0434 v.6	20240426	Product data sheet	-	74AUP3G0434 v.5	
Modifications:	Type number	Type number 74AUP3G0434GF (SOT1089/XSON8) removed.			
74AUP3G0434 v.5	20230731	Product data sheet	-	74AUP3G0434 v.4	
Modifications:	Section 2: E	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.			
74AUP3G0434 v.4	20210113	Product data sheet	-	74AUP3G0434 v.3	
Modifications:		 Type number 74AUP3G0434GM (SOT902-2/XQFN8) removed. <u>Section 8</u>: Derating values for P_{tot} total power dissipation updated. 			
74AUP3G0434 v.3	20190425	Product data sheet	-	74AUP3G0434 v.2	
Modifications:	guidelines o Legal texts Type number	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Type number 74AUP3G0434GD (SOT996-2/XSON8) removed. Package outline drawing SOT765-1 and SOT902-2 updated. 			
74AUP3G0434 v.2	20130117	Product data sheet	-	74AUP3G0434 v.1	
Modifications:	For type null	For type number 74AUP3G0434GD XSON8U has changed to XSON8.			
74AUP3G0434 v.1	20121217	Product data sheet	-	-	

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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".
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74AUP3G0434

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