Low-power unbuffered inverter Rev. 8 — 2 November 2022

### 1. General description

The 74AUP1GU04 is a single unbuffered inverter. Schmitt-trigger action at all inputs makes the circuit tolerant of slower input rise and fall times. This device ensures very low static and dynamic power consumption across the entire V<sub>CC</sub> range from 0.8 V to 3.6 V. This device is fully specified for partial power down applications using I<sub>OFF</sub>. The I<sub>OFF</sub> circuitry disables the output, preventing the potentially 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
- CMOS low power dissipation
- Low static power consumption; I<sub>CC</sub> = 0.9 μA (maximum)
- Low noise overshoot and undershoot < 10% of V<sub>CC</sub>
- I<sub>OFF</sub> circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 100 mA per JESD 78 Class II
- Overvoltage tolerant inputs to 3.6 V
- Complies with JEDEC standards:
  - JESD8-12 (0.8 V to 1.3 V)
  - JESD8-11 (0.9 V to 1.65 V)
  - JESD8-7 (1.65 V to 1.95 V)
  - JESD8-5 (2.3 V to 2.7 V)
  - JESD8C (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
- Multiple package options
- Specified from -40 °C to +85 °C and -40 °C to +125 °C



# 3. Ordering information

Table	1.	Ordering	information

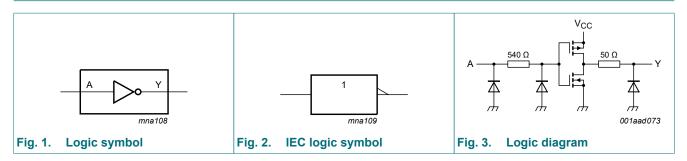
Type number	Package								
	Temperature range	Name	Description	Version					
74AUP1GU04GW	-40 °C to +125 °C	TSSOP5	plastic thin shrink small outline package; 5 leads; body width 1.25 mm	<u>SOT353-1</u>					
74AUP1GU04GM	-40 °C to +125 °C	XSON6	plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm	<u>SOT886</u>					
74AUP1GU04GN	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm	<u>SOT1115</u>					
74AUP1GU04GS	-40 °C to +125 °C	XSON6	extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm	<u>SOT1202</u>					
74AUP1GU04GX	-40 °C to +125 °C	X2SON5	plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 × 0.8 × 0.32 mm	<u>SOT1226-3</u>					

### 4. Marking

Table 2. Marking					
Type number	Marking code [1]				
74AUP1GU04GW	pD				
74AUP1GU04GM	pD				
74AUP1GU04GN	pD				
74AUP1GU04GS	pD				
74AUP1GU04GX	pD				

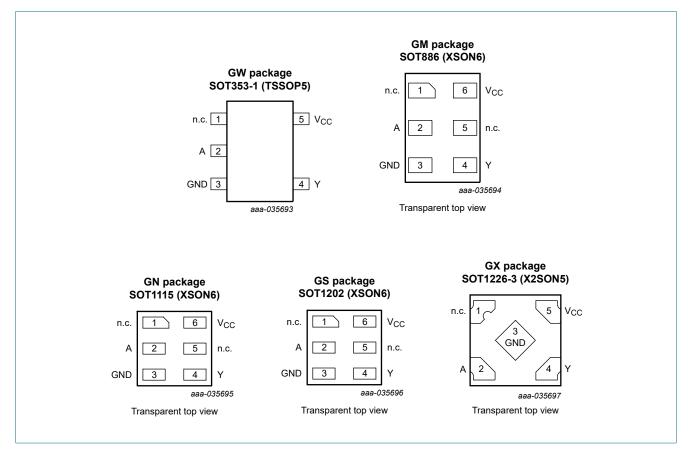
[1] The pin 1 indicator is located on the lower left corner of the device, below the marking code.

# 5. Functional diagram



### 6. Pinning information





### 6.2. Pin description

Symbol	Pin		Description
	TSSOP5 and X2SON5	XSON6	
n.c.	1	1	not connected
A	2	2	data input
GND	3	3	ground (0 V)
Y	4	4	data output
n.c.	-	5	not connected
V <sub>CC</sub>	5	6	supply voltage

### 7. Functional description

#### Table 4. Function table

*H* = *HIGH* voltage level; *L* = *LOW* voltage level.

Input	Output
Α	Y
L	Н
Н	L

### 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>1</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	[1]	-0.5	V <sub>CC</sub> + 0.5	V
lo	output current	$V_{O} = 0 V$ 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	$T_{amb} = -40 \text{ °C to } +125 \text{ °C}$ [2]	-	250	mW

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

[2] For SOT353-1 (TSSOP5) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT886 (XSON6) package: P<sub>tot</sub> derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: P<sub>tot</sub> derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: Ptot derates linearly with 3.3 mW/K above 74 °C.

For SOT1226-3 (X2SON5) package: Ptot derates linearly with 3.0 mW/K above 67 °C.

### 9. Recommended operating conditions

#### Table 6. Recommended 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		0	V <sub>CC</sub>	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					
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V to 3.6 V	0.75 × V <sub>CC</sub>	-	-	V
V <sub>IL</sub>	LOW-level input voltage	V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	0.25 × V <sub>CC</sub>	V
/ <sub>OH</sub> HIGH-level output		$I_{O}$ = -20 µA; $V_{CC}$ = 0.8 V to 3.6 V	V <sub>CC</sub> - 0.1	-	-	V
	voltage	I <sub>O</sub> = -1.1 mA; V <sub>CC</sub> = 1.1 V	0.75 × V <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	$I_{O}$ = 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	-	-	0.3 × V <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	$V_I$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.1	μA
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
CI	input capacitance	$V_{CC}$ = 0 V to 3.6 V; V <sub>I</sub> = GND or V <sub>CC</sub>	-	1.5	-	pF
Co	output capacitance	$V_{O} = GND; V_{CC} = 0 V$	-	1.8	-	pF
T <sub>amb</sub> = -	40 °C to +85 °C					
V <sub>IH</sub>	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V to 3.6 V	0.75 × V <sub>CC</sub>	-	-	V
VIL	LOW-level input voltage	V <sub>CC</sub> = 0.8 V to 3.6 V	-	-	0.25 × V <sub>CC</sub>	V
V <sub>OH</sub>	HIGH-level output	$I_{O}$ = -20 µA; $V_{CC}$ = 0.8 V to 3.6 V	V <sub>CC</sub> - 0.1	-	-	V
	voltage	I <sub>O</sub> = -1.1 mA; V <sub>CC</sub> = 1.1 V	0.7 × V <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

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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V <sub>OL</sub>	LOW-level output 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	-	-	0.3 × V <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	$V_I$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 V	-	-	±0.5	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
T <sub>amb</sub> = -	40 °C to +125 °C				-	
VIH	HIGH-level input voltage	V <sub>CC</sub> = 0.8 V to 3.6 V	0.75 × V <sub>CC</sub>	-	-	V
VIL	LOW-level input voltage	<sub>C</sub> = 0.8 V to 3.6 V -		-	0.25 × V <sub>CC</sub>	V
V <sub>OH</sub>	HIGH-level output voltage	$I_{O}$ = -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	0.6 × V <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	$I_{O}$ = 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	-	-	0.33 × V <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
lı	input leakage current	$V_I$ = GND to 3.6 V; $V_{CC}$ = 0 V to 3.6 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

# **11. Dynamic characteristics**

### Table 8. Dynamic characteristics

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

Symbol	Parameter	eter Conditions		25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit
				Typ [1]	Max	Min	Max	Min	Max	
C <sub>L</sub> = 5 p	F									
t <sub>pd</sub>	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V <sub>CC</sub> = 0.8 V	-	6.2	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	0.9	2.3	4.4	0.9	4.8	0.9	5.3	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	0.7	1.7	3.1	0.6	3.4	0.6	3.8	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.5	1.4	2.6	0.5	2.9	0.5	3.2	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.4	1.1	2.0	0.4	2.3	0.4	2.6	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.3	1.0	1.8	0.3	2.1	0.3	2.4	ns
C <sub>L</sub> = 10	pF									
t <sub>pd</sub>	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V <sub>CC</sub> = 0.8 V	-	9.6	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	1.2	3.1	6.1	1.2	6.8	1.2	7.5	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	1.0	2.3	4.0	0.9	4.6	0.9	5.1	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.8	1.9	3.3	0.7	3.8	0.7	4.2	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.6	1.5	2.7	0.6	3.1	0.6	3.5	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.5	1.3	2.4	0.5	2.7	0.5	3.0	ns
C <sub>L</sub> = 15	pF									
t <sub>pd</sub>	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V <sub>CC</sub> = 0.8 V	-	13.0	-	-	-	-	-	ns
		V <sub>CC</sub> = 1.1 V to 1.3 V	1.6	3.8	7.9	1.4	8.8	1.4	9.7	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	1.3	2.8	4.9	1.1	5.7	1.1	6.3	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	2.3	4.0	0.9	4.7	0.9	5.2	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	0.8	1.9	3.2	0.8	3.7	0.8	4.1	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	0.7	1.6	2.9	0.7	3.3	0.7	3.7	ns
C <sub>L</sub> = 30	pF									
t <sub>pd</sub>	propagation	A to Y; see <u>Fig. 4</u> [2]								
	delay	V <sub>CC</sub> = 0.8 V	-	23.2	-	-	-	-	-	-
		V <sub>CC</sub> = 1.1 V to 1.3 V	2.4	6.0	13.1	2.2	14.8	2.2	16.3	ns
		V <sub>CC</sub> = 1.4 V to 1.6 V	2.0	4.2	7.6	1.8	9.0	1.8	9.9	ns
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.7	3.6	6.1	1.5	7.2	1.5	8.0	ns
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.4	2.9	4.8	1.3	5.7	1.3	6.3	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.2	2.5	4.3	1.1	5.1	1.1	5.7	ns

#### Low-power unbuffered inverter

Symbol	Parameter	rameter Conditions	25 °C		-40 °C to +85 °C		-40 °C to +125 °C		Unit		
			Min	Typ [1]	Мах	Min	Max	Min	Max		
C <sub>L</sub> = 5 p	F, 10 pF, 15 pF	and 30 pF									
C <sub>PD</sub>	power		$f = 1 \text{ MHz}; V_1 = \text{GND to } V_{\text{CC}}$ [3]								
	dissipation capacitance	V <sub>CC</sub> = 0.8 V	-	1.2	-	-	-	-	-	pF	
	Capacitance	V <sub>CC</sub> = 1.1 V to 1.3 V	-	1.1	-	-	-	-	-	pF	
		V <sub>CC</sub> = 1.4 V to 1.6 V	-	1.2	-	-	-	-	-	pF	
		V <sub>CC</sub> = 1.65 V to 1.95 V	-	1.4	-	-	-	-	-	pF	
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	2.8	-	-	-	-	-	pF	
		V <sub>CC</sub> = 3.0 V to 3.6 V	-	4.4	-	-	-	-	-	pF	

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

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

[3]  $C_{PD}$  is used to determine the dynamic power dissipation ( $P_D$  in  $\mu W$ ).

 $P_{D} = C_{PD} \times V_{CC}^{2} \times f_{i} \times N + \Sigma (C_{L} \times V_{CC}^{2} \times f_{o}) \text{ where:}$ 

 $f_i$  = input frequency in MHz;

 $f_o$  = output frequency in MHz;

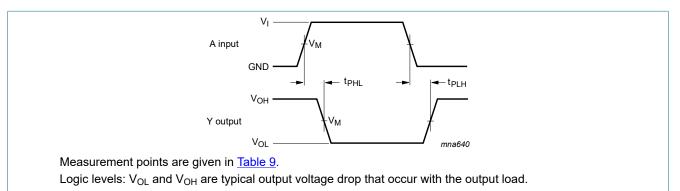
C<sub>L</sub> = output load capacitance in pF;

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.

### 11.1. Waveforms and test circuit

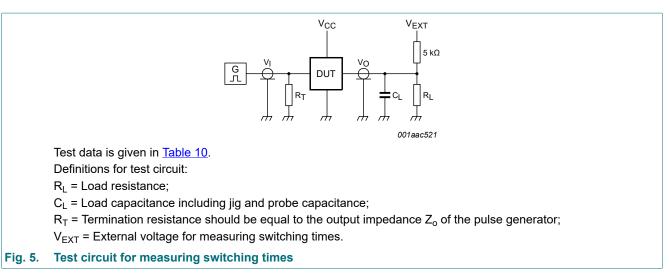


#### Fig. 4. The data input (A) to output (Y) propagation delays

#### Table 9. Measurement points

Supply voltage	Output	Input				
V <sub>cc</sub>	V <sub>M</sub>	V <sub>M</sub>	VI	t <sub>r</sub> = t <sub>f</sub>		
0.8 V to 3.6 V	$0.5 \times V_{CC}$	$0.5 \times V_{CC}$	V <sub>CC</sub>	≤ 3.0 ns		

#### Low-power unbuffered inverter



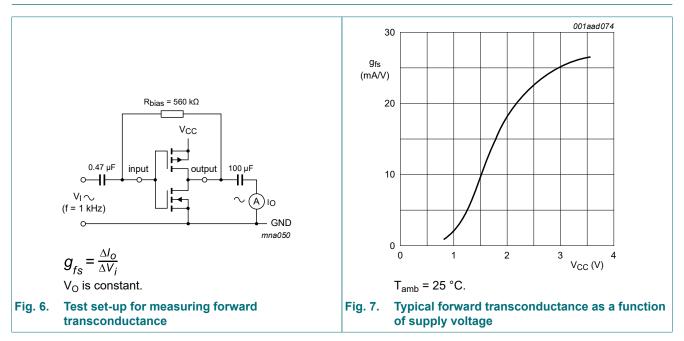
#### Table 10. Test data

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<sub>L</sub> = 1 M $\Omega$ .

### 12. Additional characteristics



### **13. Application information**

Some applications for the 74AUP1GU04 are:

- Linear amplifier (see <u>Fig. 8</u>)
- Crystal oscillator (see Fig. 9).

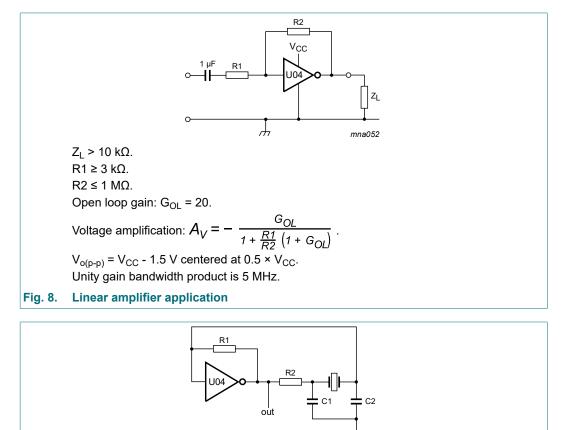
C1 = 47 pF. C2 = 22 pF.

Fig. 9.

R1 = 1 M $\Omega$  to 10 M $\Omega$ .

**Crystal oscillator application** 

Remark: All values given are typical values unless otherwise specified.



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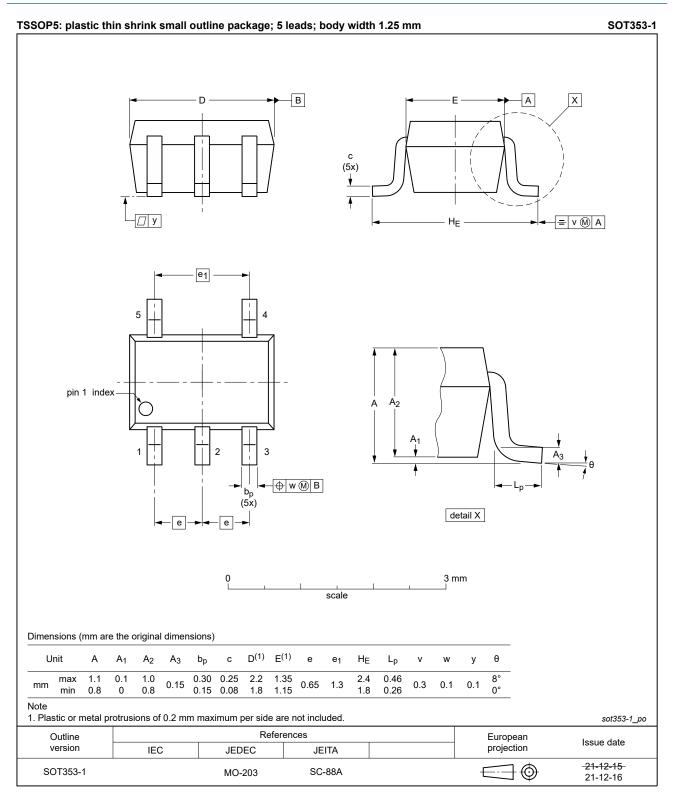
R2 optimum value depends on the frequency and required stability against changes in

 $V_{CC}$  or average minimum  $I_{CC}$  ( $I_{CC}$  = 2 mA at  $V_{CC}$  = 3.3 V and f = 10 MHz).

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### 14. Package outline



### Fig. 10. Package outline SOT353-1 (TSSOP5)

### Low-power unbuffered inverter

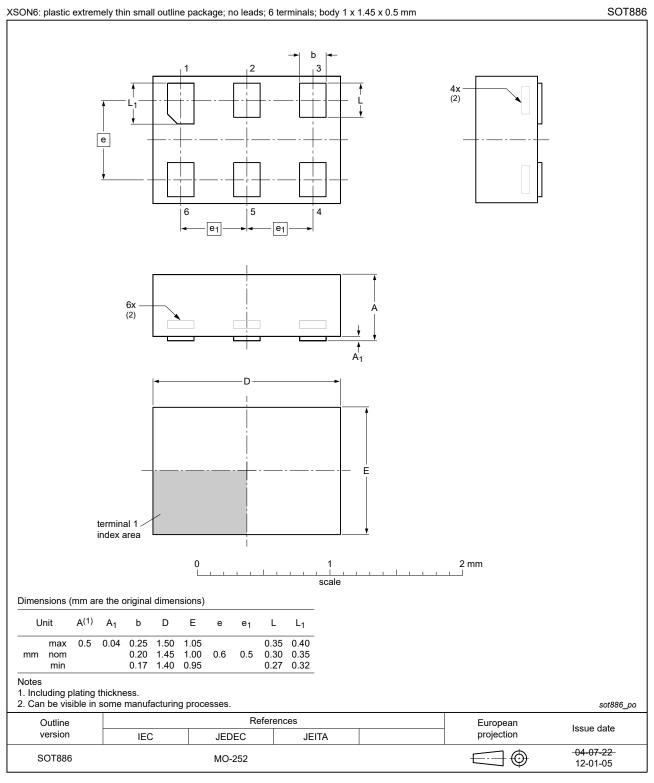
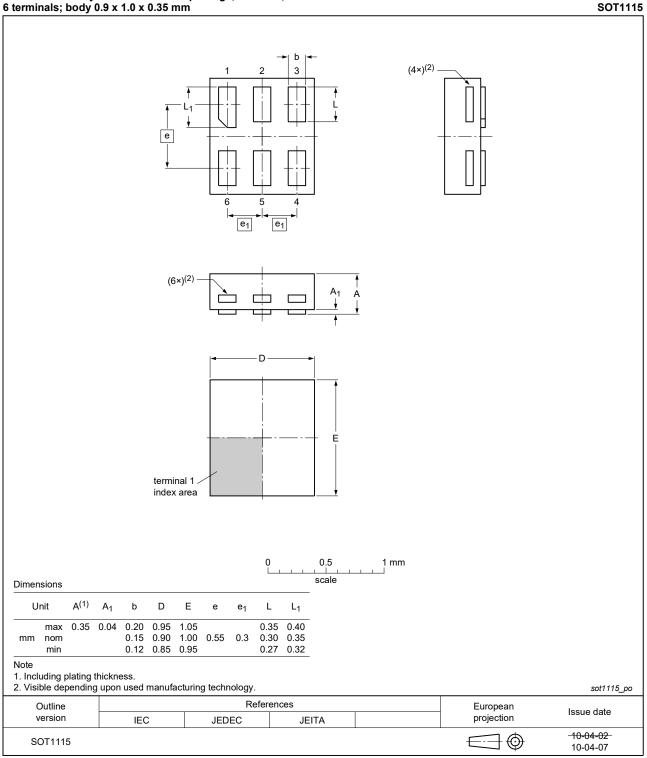


Fig. 11. Package outline SOT886 (XSON6)

### Low-power unbuffered inverter

#### XSON6: extremely thin small outline package; no leads; 6 terminals; body 0.9 x 1.0 x 0.35 mm

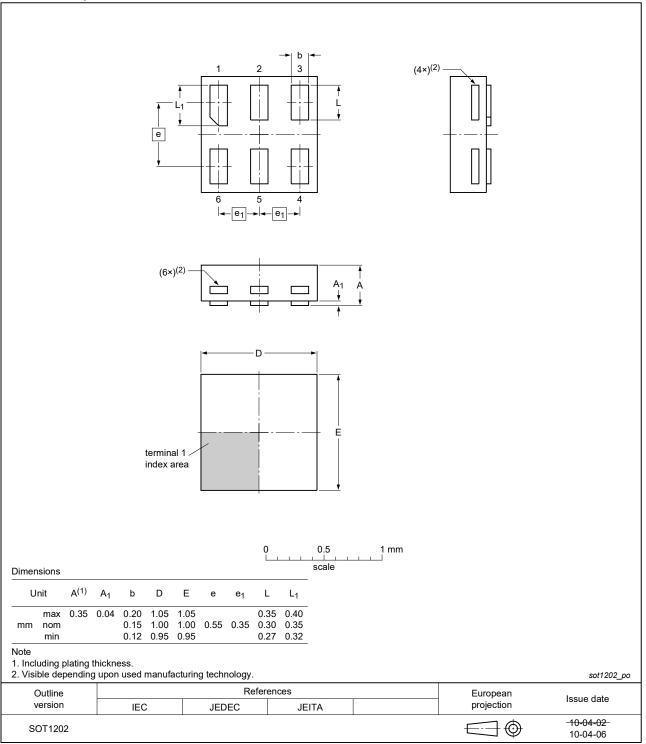




SOT1202

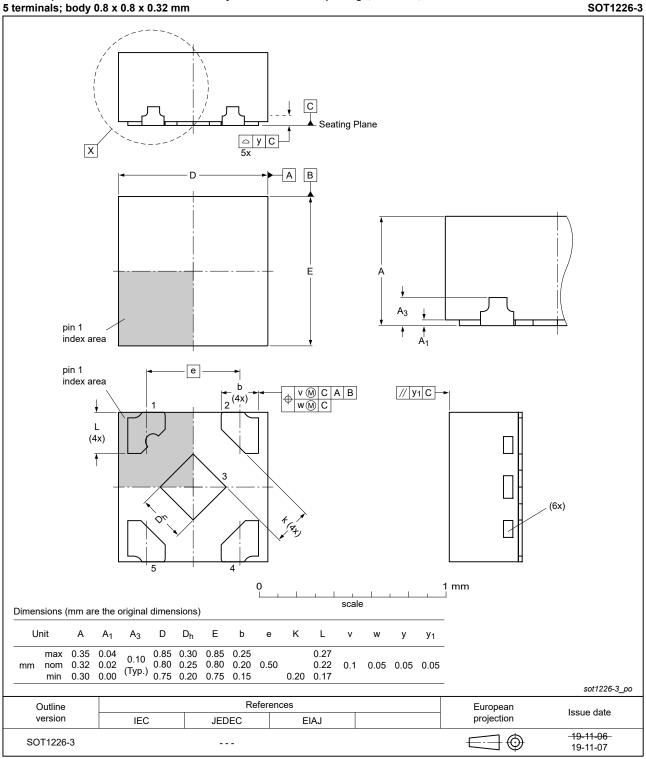
### Low-power unbuffered inverter

# XSON6: extremely thin small outline package; no leads; 6 terminals; body 1.0 x 1.0 x 0.35 mm





### Low-power unbuffered inverter



# X2SON5: plastic thermal enhanced extremely thin small outline package; no leads; 5 terminals; body 0.8 x 0.8 x 0.32 mm



# **15. Abbreviations**

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

# 16. Revision history

### Table 12. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes		
74AUP1GU04 v.8	20221102	Product data sheet	-	74AUP1GU04 v.7		
Modifications:	Type number	Type number 74AUP1GU04GF (SOT891/XSON6) removed.				
74AUP1GU04 v.7	20220609	Product data sheet	-	74AUP1GU04 v.6		
Modifications:	<ul> <li>Package out</li> </ul>	Package outline drawing SOT1226 (X2SON5) replaced with SOT1226-3.				
74AUP1GU04 v.6	20220210	Product data sheet	-	74AUP1GU04 v.5		
Modifications:	guidelines c Legal texts <u>Fig. 10</u> : Pac <u>Table 5</u> : De	<ul> <li>Fig. 10: Package outline drawing for SOT353-1 (TSSOP5) has changed.</li> </ul>				
74AUP1GU04 v.5	20120629	Product data sheet	-	74AUP1GU04 v.4		
Modifications:		number 74AUP1GU04GX Itline drawing of SOT886 (	· ,			
74AUP1GU04 v.4	20111116	Product data sheet	-	74AUP1GU04 v.3		
Modifications:	0.0	<ul><li>Legal pages updated.</li><li>Package outline drawing SOT363 replaced by SOT353-1.</li></ul>				
74AUP1GU04 v.3	20100721	Product data sheet	-	74AUP1GU04 v.2		
74AUP1GU04 v.2	20060803	Product data sheet	-	74AUP1GU04 v.1		
1 1/101 10001 1.2						

#### Low-power unbuffered inverter

### 17. 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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