

74AUP1GU04

Low-power unbuffered inverter

Rev. 8 — 2 November 2022

Product data sheet

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_{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 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; $I_{CC} = 0.9 \mu\text{A}$ (maximum)
- Low noise overshoot and undershoot < 10% of V_{CC}
- I_{OFF} 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 | SOT353-1 |
| 74AUP1GU04GM | -40 °C to +125 °C | XSON6 | plastic extremely thin small outline package; no leads; 6 terminals; body 1 × 1.45 × 0.5 mm | SOT886 |
| 74AUP1GU04GN | -40 °C to +125 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 0.9 × 1.0 × 0.35 mm | SOT1115 |
| 74AUP1GU04GS | -40 °C to +125 °C | XSON6 | extremely thin small outline package; no leads; 6 terminals; body 1.0 × 1.0 × 0.35 mm | SOT1202 |
| 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 | SOT1226-3 |

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

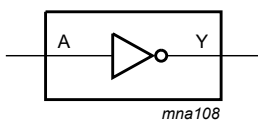


Fig. 1. Logic symbol



Fig. 2. IEC logic symbol

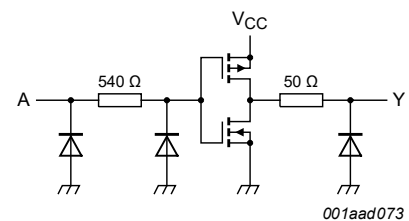
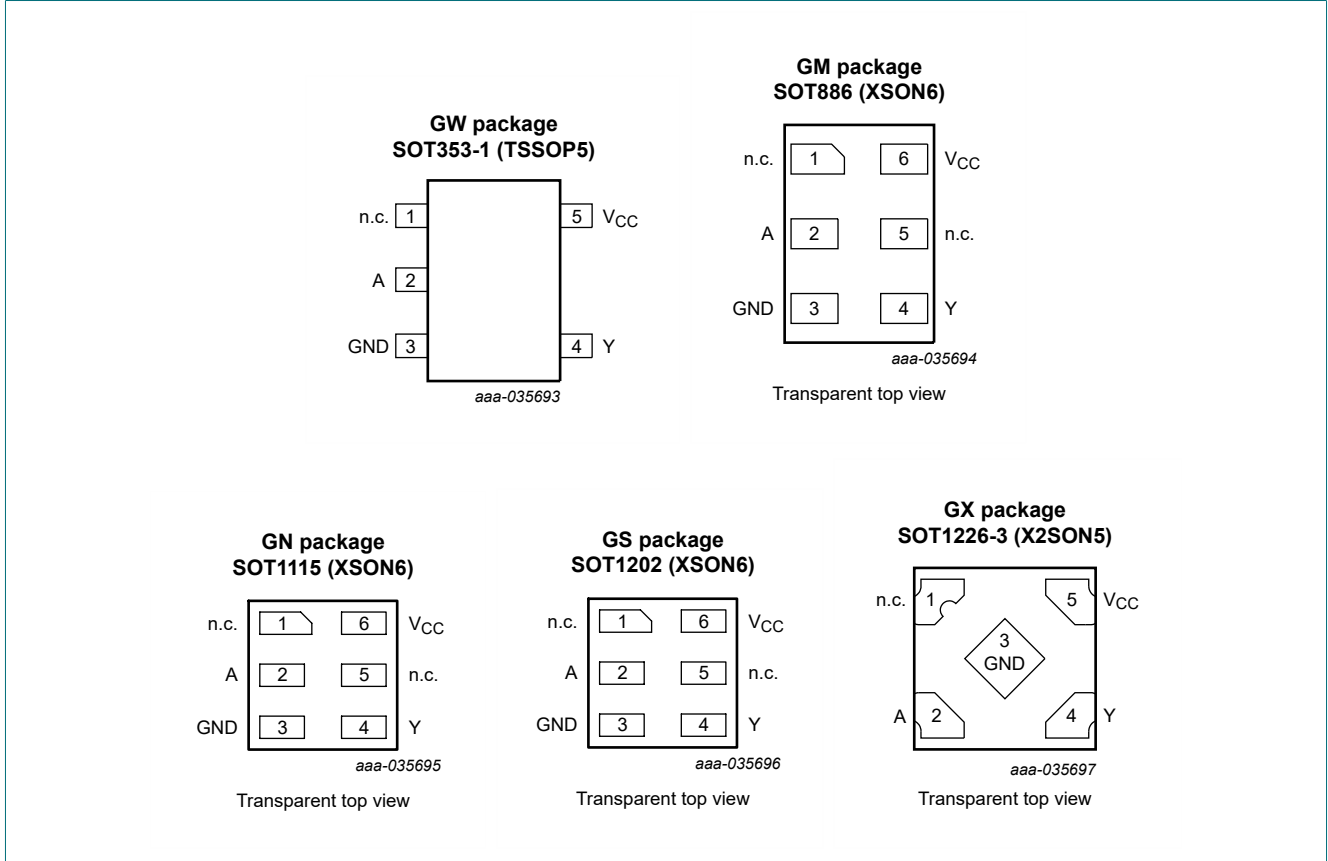


Fig. 3. Logic diagram

6. Pinning information

6.1. Pinning



6.2. Pin description

Table 3. 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 _{CC} | 5 | 6 | supply voltage |

7. Functional description

Table 4. Function table

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

| Input | Output |
|-------|--------|
| A | Y |
| L | H |
| H | 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_{CC} | supply voltage | | -0.5 | +4.6 | V |
| I_{IK} | input clamping current | $V_I < 0$ V | -50 | - | mA |
| V_I | input voltage | | [1] -0.5 | +4.6 | V |
| I_{OK} | output clamping current | $V_O < 0$ V | -50 | - | mA |
| V_O | output voltage | | [1] -0.5 | $V_{CC} + 0.5$ | V |
| I_O | output current | $V_O = 0$ V to V_{CC} | - | ± 20 | mA |
| I_{CC} | supply current | | - | +50 | mA |
| I_{GND} | ground current | | -50 | - | mA |
| T_{stg} | storage temperature | | -65 | +150 | °C |
| P_{tot} | total power dissipation | $T_{amb} = -40$ °C to +125 °C | [2] - | 250 | mW |

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

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

For SOT886 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1115 (XSON6) package: P_{tot} derates linearly with 3.2 mW/K above 71 °C.

For SOT1202 (XSON6) package: P_{tot} derates linearly with 3.3 mW/K above 74 °C.

For SOT1226-3 (X2SON5) package: P_{tot} 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_{CC} | supply voltage | | 0.8 | 3.6 | V |
| V_I | input voltage | | 0 | 3.6 | V |
| V_O | output voltage | | 0 | V_{CC} | V |
| T_{amb} | ambient temperature | | -40 | +125 | °C |
| $\Delta t/\Delta V$ | input transition rise and fall rate | $V_{CC} = 0.8$ V to 3.6 V | 0 | 200 | ns/V |

10. Static characteristics

Table 7. Static characteristics

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

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|---|---------------------------|---|------------------------|-----|------------------------|------|
| T_{amb} = 25 °C | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 0.8 V to 3.6 V | 0.75 × V _{CC} | - | - | V |
| V _{IL} | LOW-level input voltage | V _{CC} = 0.8 V to 3.6 V | - | - | 0.25 × V _{CC} | V |
| V _{OH} | HIGH-level output 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 | 0.75 × V _{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 | - | - | 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 | 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 | - | - | 0.3 × V _{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 |
| I _I | input leakage current | V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V | - | - | ±0.1 | μA |
| 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 | μA |
| C _I | input capacitance | V _{CC} = 0 V to 3.6 V; V _I = GND or V _{CC} | - | 1.5 | - | pF |
| C _O | output capacitance | V _O = GND; V _{CC} = 0 V | - | 1.8 | - | pF |
| T_{amb} = -40 °C to +85 °C | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 0.8 V to 3.6 V | 0.75 × V _{CC} | - | - | V |
| V _{IL} | LOW-level input voltage | V _{CC} = 0.8 V to 3.6 V | - | - | 0.25 × V _{CC} | V |
| V _{OH} | HIGH-level output 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 | 0.7 × V _{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 |

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|--|---------------------------|---|------------------------|-----|------------------------|------|
| V _{OL} | LOW-level output 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 | - | - | 0.3 × V _{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 |
| I _I | input leakage current | V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V | - | - | ±0.5 | μA |
| I _{CC} | supply current | V _I = GND or V _{CC} ; I _O = 0 A; V _{CC} = 0.8 V to 3.6 V | - | - | 0.9 | μA |
| T_{amb} = -40 °C to +125 °C | | | | | | |
| V _{IH} | HIGH-level input voltage | V _{CC} = 0.8 V to 3.6 V | 0.75 × V _{CC} | - | - | V |
| V _{IL} | LOW-level input voltage | V _{CC} = 0.8 V to 3.6 V | - | - | 0.25 × V _{CC} | V |
| V _{OH} | HIGH-level output 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 | 0.6 × V _{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 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 | - | - | 0.33 × V _{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 _I | input leakage current | V _I = GND to 3.6 V; V _{CC} = 0 V to 3.6 V | - | - | ±0.75 | μA |
| 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 | μA |

11. Dynamic characteristics

Table 8. 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 pF | | | | | | | | | | |
| t _{pd} | propagation delay | A to Y; see Fig. 4 [2] | | | | | | | | |
| | | V _{CC} = 0.8 V | - | 6.2 | - | - | - | - | - | ns |
| | | V _{CC} = 1.1 V to 1.3 V | 0.9 | 2.3 | 4.4 | 0.9 | 4.8 | 0.9 | 5.3 | ns |
| | | V _{CC} = 1.4 V to 1.6 V | 0.7 | 1.7 | 3.1 | 0.6 | 3.4 | 0.6 | 3.8 | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 0.5 | 1.4 | 2.6 | 0.5 | 2.9 | 0.5 | 3.2 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.4 | 1.1 | 2.0 | 0.4 | 2.3 | 0.4 | 2.6 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.3 | 1.0 | 1.8 | 0.3 | 2.1 | 0.3 | 2.4 | ns |
| C_L = 10 pF | | | | | | | | | | |
| t _{pd} | propagation delay | A to Y; see Fig. 4 [2] | | | | | | | | |
| | | V _{CC} = 0.8 V | - | 9.6 | - | - | - | - | - | ns |
| | | V _{CC} = 1.1 V to 1.3 V | 1.2 | 3.1 | 6.1 | 1.2 | 6.8 | 1.2 | 7.5 | ns |
| | | V _{CC} = 1.4 V to 1.6 V | 1.0 | 2.3 | 4.0 | 0.9 | 4.6 | 0.9 | 5.1 | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 0.8 | 1.9 | 3.3 | 0.7 | 3.8 | 0.7 | 4.2 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.6 | 1.5 | 2.7 | 0.6 | 3.1 | 0.6 | 3.5 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.5 | 1.3 | 2.4 | 0.5 | 2.7 | 0.5 | 3.0 | ns |
| C_L = 15 pF | | | | | | | | | | |
| t _{pd} | propagation delay | A to Y; see Fig. 4 [2] | | | | | | | | |
| | | V _{CC} = 0.8 V | - | 13.0 | - | - | - | - | - | ns |
| | | V _{CC} = 1.1 V to 1.3 V | 1.6 | 3.8 | 7.9 | 1.4 | 8.8 | 1.4 | 9.7 | ns |
| | | V _{CC} = 1.4 V to 1.6 V | 1.3 | 2.8 | 4.9 | 1.1 | 5.7 | 1.1 | 6.3 | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.0 | 2.3 | 4.0 | 0.9 | 4.7 | 0.9 | 5.2 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 0.8 | 1.9 | 3.2 | 0.8 | 3.7 | 0.8 | 4.1 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 0.7 | 1.6 | 2.9 | 0.7 | 3.3 | 0.7 | 3.7 | ns |
| C_L = 30 pF | | | | | | | | | | |
| t _{pd} | propagation delay | A to Y; see Fig. 4 [2] | | | | | | | | |
| | | V _{CC} = 0.8 V | - | 23.2 | - | - | - | - | - | - |
| | | V _{CC} = 1.1 V to 1.3 V | 2.4 | 6.0 | 13.1 | 2.2 | 14.8 | 2.2 | 16.3 | ns |
| | | V _{CC} = 1.4 V to 1.6 V | 2.0 | 4.2 | 7.6 | 1.8 | 9.0 | 1.8 | 9.9 | ns |
| | | V _{CC} = 1.65 V to 1.95 V | 1.7 | 3.6 | 6.1 | 1.5 | 7.2 | 1.5 | 8.0 | ns |
| | | V _{CC} = 2.3 V to 2.7 V | 1.4 | 2.9 | 4.8 | 1.3 | 5.7 | 1.3 | 6.3 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | 1.2 | 2.5 | 4.3 | 1.1 | 5.1 | 1.1 | 5.7 | ns |

| 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 pF, 10 pF, 15 pF and 30 pF | | | | | | | | | | |
| C _{PD} | power dissipation capacitance | f = 1 MHz; V _I = GND to V _{CC} [3] | | | | | | | | |
| | | V _{CC} = 0.8 V | - | 1.2 | - | - | - | - | - | pF |
| | | V _{CC} = 1.1 V to 1.3 V | - | 1.1 | - | - | - | - | - | pF |
| | | V _{CC} = 1.4 V to 1.6 V | - | 1.2 | - | - | - | - | - | pF |
| | | V _{CC} = 1.65 V to 1.95 V | - | 1.4 | - | - | - | - | - | pF |
| | | V _{CC} = 2.3 V to 2.7 V | - | 2.8 | - | - | - | - | - | pF |
| | | V _{CC} = 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 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 = output load capacitance in pF;
 V_{CC} = supply voltage in V;
 N = number of inputs switching;
 Σ(C_L × V_{CC}² × f_o) = sum of the outputs.

11.1. Waveforms and test circuit

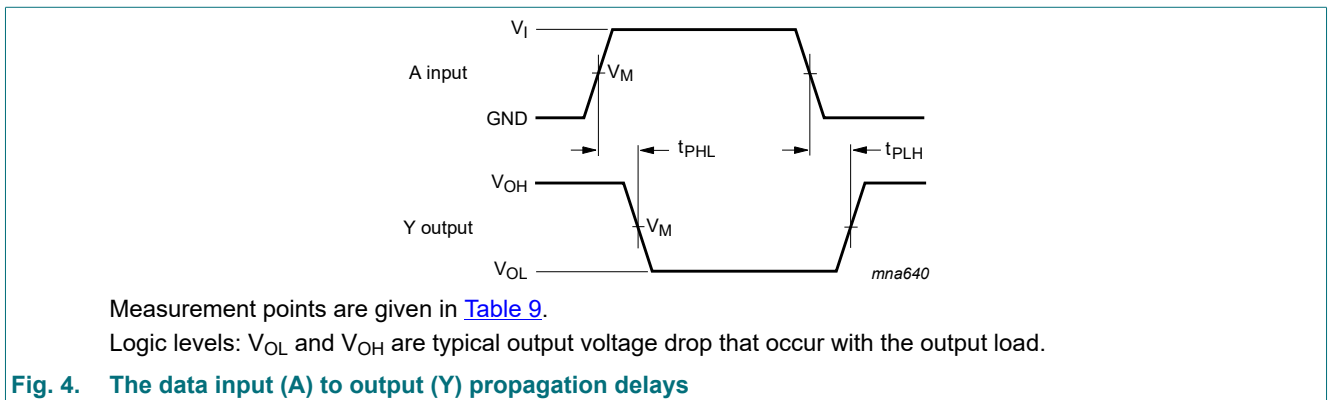


Table 9. Measurement points

| Supply voltage | Output | Input | | |
|-----------------|-----------------------|-----------------------|-----------------|---------------------------------|
| V _{CC} | V _M | V _M | V _I | t _r = t _f |
| 0.8 V to 3.6 V | 0.5 × V _{CC} | 0.5 × V _{CC} | V _{CC} | ≤ 3.0 ns |



Test data is given in [Table 10](#).

Definitions for test circuit:

R_L = Load resistance;

C_L = Load capacitance including jig and probe capacitance;

R_T = Termination resistance should be equal to the output impedance Z_o of the pulse generator;

V_{EXT} = External voltage for measuring switching times.

Fig. 5. Test circuit for measuring switching times

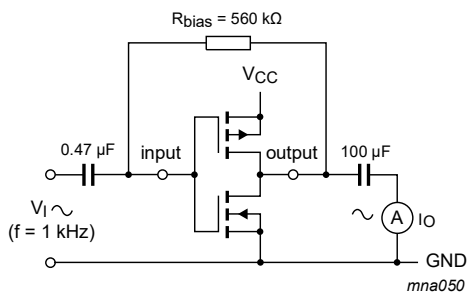
Table 10. Test data

| Supply voltage | Load | | V_{EXT} | | |
|----------------|------------------------------|--------------|-----------------------|-----------------------|-----------------------|
| V_{CC} | C_L | R_L [1] | t_{PLH} , t_{PHL} | t_{PZH} , t_{PHZ} | t_{PZL} , t_{PLZ} |
| 0.8 V to 3.6 V | 5 pF, 10 pF, 15 pF and 30 pF | 5 kΩ or 1 MΩ | open | GND | $2 \times V_{CC}$ |

[1] For measuring enable and disable times $R_L = 5 \text{ k}\Omega$.

For measuring propagation delays, setup and hold times and pulse width $R_L = 1 \text{ M}\Omega$.

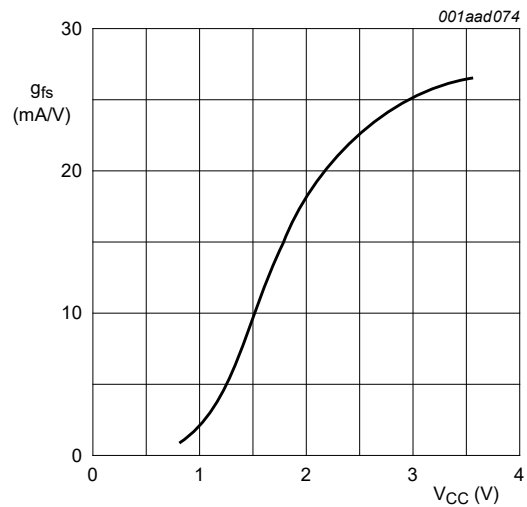
12. Additional characteristics



$$g_{fs} = \frac{\Delta I_O}{\Delta V_i}$$

V_O is constant.

Fig. 6. Test set-up for measuring forward transconductance



$T_{amb} = 25 \text{ }^\circ\text{C}$.

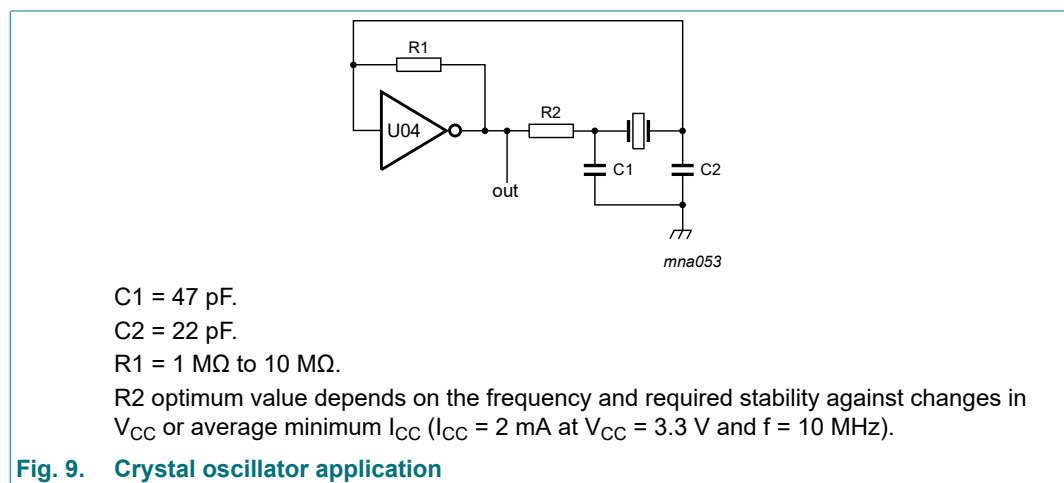
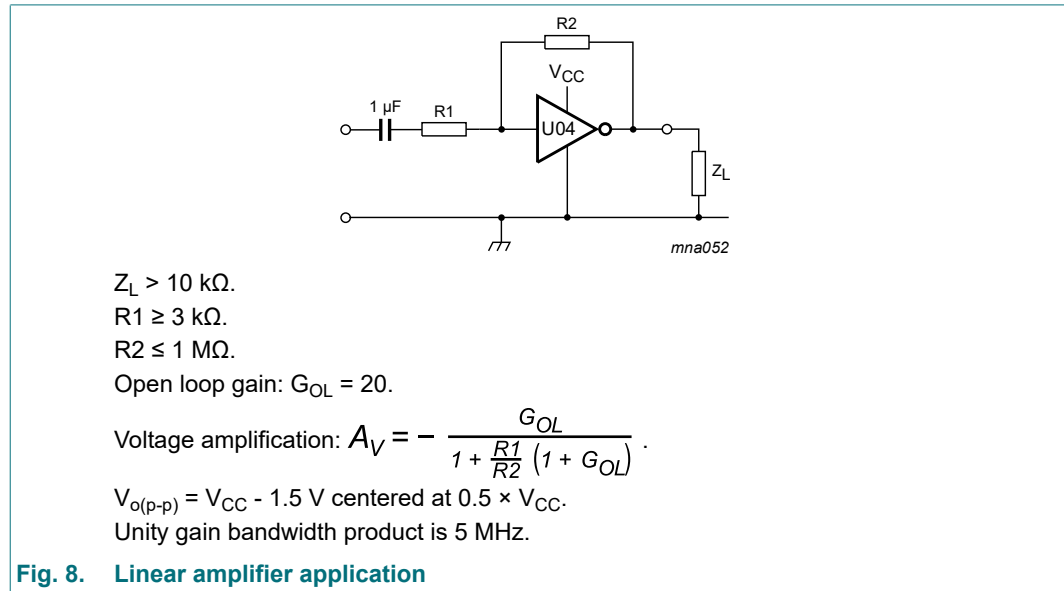
Fig. 7. Typical forward transconductance as a function of supply voltage

13. Application information

Some applications for the 74AUP1GU04 are:

- Linear amplifier (see [Fig. 8](#))
- Crystal oscillator (see [Fig. 9](#)).

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



14. Package outline

TSSOP5: plastic thin shrink small outline package; 5 leads; body width 1.25 mm

SOT353-1



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

XSON6: plastic extremely thin small outline package; no leads; 6 terminals; body 1 x 1.45 x 0.5 mm

SOT886



Fig. 11. Package outline SOT886 (XSON6)

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

SOT1115



Fig. 12. Package outline SOT1115 (XSON6)

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

SOT1202



Fig. 13. Package outline SOT1202 (XSON6)

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

SOT1226-3



Fig. 14. Package outline SOT1226-3 (X2SON5)

15. Abbreviations

Table 11. Abbreviations

| Acronym | Description |
|---------|-------------------------|
| CDM | Charged Device Model |
| DUT | Device Under Test |
| ESD | ElectroStatic Discharge |
| HBM | 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: | <ul style="list-style-type: none"> Type number 74AUP1GU04GF (SOT891/XSON6) removed. | | | |
| 74AUP1GU04 v.7 | 20220609 | Product data sheet | - | 74AUP1GU04 v.6 |
| Modifications: | <ul style="list-style-type: none"> Package outline drawing SOT1226 (X2SON5) replaced with SOT1226-3. | | | |
| 74AUP1GU04 v.6 | 20220210 | Product data sheet | - | 74AUP1GU04 v.5 |
| Modifications: | <ul style="list-style-type: none"> 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. Fig. 10: Package outline drawing for SOT353-1 (TSSOP5) has changed. Table 5: Derating values for P_{tot} total power dissipation updated. Section 1 and Section 2 updated. | | | |
| 74AUP1GU04 v.5 | 20120629 | Product data sheet | - | 74AUP1GU04 v.4 |
| Modifications: | <ul style="list-style-type: none"> Added type number 74AUP1GU04GX (SOT1226). Package outline drawing of SOT886 (Fig. 11) modified. | | | |
| 74AUP1GU04 v.4 | 20111116 | Product data sheet | - | 74AUP1GU04 v.3 |
| Modifications: | <ul style="list-style-type: none"> Legal pages updated. Package outline drawing SOT363 replaced by SOT353-1. | | | |
| 74AUP1GU04 v.3 | 20100721 | Product data sheet | - | 74AUP1GU04 v.2 |
| 74AUP1GU04 v.2 | 20060803 | Product data sheet | - | 74AUP1GU04 v.1 |
| 74AUP1GU04 v.1 | 20050810 | Product data sheet | - | - |

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. |

- [1] Please consult the most recently issued document before initiating or completing a design.
- [2] The term 'short data sheet' is explained in section "Definitions".
- [3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the internet at <https://www.nexperia.com>.

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