

74AHCV07APWJ Datasheet

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| DiGi Electronics Part Number | 74AHCV07APWI-DG |
|------------------------------|--|
| bior Electronics Furthumber | |
| Manufacturer | Nexperia USA Inc. |
| Manufacturer Product Number | 74AHCV07APWJ |
| Description | IC BUFFER INVERT 5.5V 14TSSOP |
| Detailed Description | Buffer, Inverting 1 Element 6 Bit per Element Ope Drain Output 14-TSSOP |
| | |

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Purchase and inquiry

| Manufacturer Product Number: | Manufacturer: |
|------------------------------|---------------------------------|
| 74AHCV07APWJ | Nexperia USA Inc. |
| Series: | Product Status: |
| 74AHCV | Active |
| Logic Type: | Number of Elements: |
| Buffer, Inverting | 1 |
| Number of Bits per Element: | Input Type: |
| 6 | |
| Output Type: | Current - Output High, Low: |
| Open Drain | -, 16mA |
| Voltage - Supply: | Operating Temperature: |
| 1.8V ~ 5.5V | -40°C ~ 125°C (TA) |
| Mounting Type: | Package / Case: |
| Surface Mount | 14-TSSOP (0.173", 4.40mm Width) |
| Supplier Device Package: | Base Product Number: |
| 14-TSSOP | 74AHCV07 |
| | |

Environmental & Export classification

| RoHS Status: | Moisture Sensitivity Level (MSL): |
|------------------|-----------------------------------|
| ROHS3 Compliant | 1 (Unlimited) |
| REACH Status: | ECCN: |
| REACH Unaffected | EAR99 |
| HTSUS: | |
| 8542.39.0001 | |



Hex buffer with open-drain outputs Rev. 3 — 23 January 2024

Product data sheet

1. General description

The 74AHCV07A is a hex buffer with open-drain outputs. The outputs are open-drain and can be connected to other open-drain outputs to implement active-LOW wired-OR or active-HIGH wired-AND functions.

Inputs are overvoltage tolerant. This feature allows the use of these devices as translators in mixed voltage environments.

The data (nA) inputs include Schmitt trigger inputs capable of transforming slowly changing input signals into sharply defined, jitter-free output signals.

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 1.8 V to 5.5 V
- Typical t_{PZL} of 3 ns at 5 V
- Typical V_{OL(p)} < 0.8 V at V_{CC} = 3.3 V, T_{amb} = 25 °C
- Supports mixed-mode voltage operation on all ports
- IOFF circuitry provides partial Power-down mode operation
- Latch-up performance exceeds 250 mA per JESD 78 Class II
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 3000 V
- CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 2000 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C

3. Ordering information

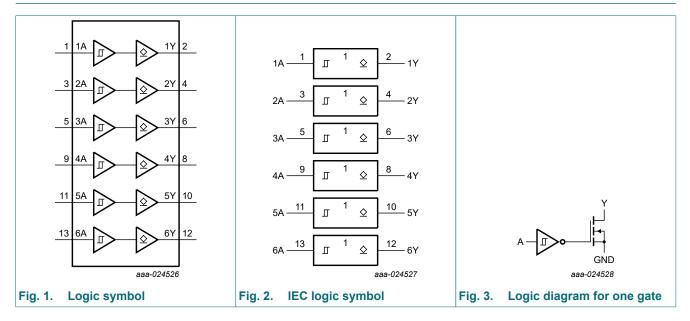
| Table 1. Ordering information | | | | | | |
|-------------------------------|-------------------|------|---|-----------------|--|--|
| Type number | Package | | | | | |
| | Temperature range | Name | Description | Version | | |
| 74AHCV07APW | -40 °C to +125 °C | | plastic thin shrink small outline package; 14 leads; body width 4.4 mm | <u>SOT402-1</u> | | |

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74AHCV07A

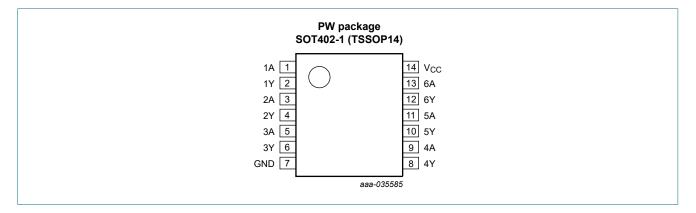
Hex buffer with open-drain outputs

4. Functional diagram



5. Pinning information

5.1. Pinning



5.2. Pin description

| Table 2. Pin description | | | | | |
|--------------------------|--------------------|----------------|--|--|--|
| Symbol | Pin | Description | | | |
| 1A, 2A, 3A, 4A, 5A, 6A | 1, 3, 5, 9, 11, 13 | data input | | | |
| 1Y, 2Y, 3Y, 4Y, 5Y, 6Y | 2, 4, 6, 8, 10, 12 | data output | | | |
| GND | 7 | ground (0 V) | | | |
| V _{CC} | 14 | supply voltage | | | |

6. Functional description

Table 3. Function selection

H = HIGH voltage level; *L* = LOW voltage level; *Z* = high-impedance OFF-state

| Input | Output |
|-------|--------|
| nA | nY |
| L | L |
| Н | Z |

7. Limiting values

Table 4. 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 | +7.0 | V |
| VI | input voltage | [1 | -0.5 | +7.0 | V |
| Vo | output voltage | output LOW state, 3-state or [2 power-down |] -0.5 | +7.0 | V |
| I _{IK} | input clamping current | V _I < 0 V | -50 | - | mA |
| I _{OK} | output clamping current | V _O < 0 V | -50 | - | mA |
| lo | output current | $V_{O} = 0 V \text{ to } V_{CC}$ | - | ±50 | mA |
| I _{CC} | supply current | | - | 100 | mA |
| I _{GND} | ground current | | -100 | - | mA |
| T _{stg} | storage temperature | | -65 | +150 | °C |
| P _{tot} | total power dissipation | T _{amb} = -40 °C to +125 °C [3 |] - | 500 | mW |

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

[2] The output voltage ratings may be exceeded if the output current ratings are observed.

[3] For SOT402-1 (TSSOP14) package: Ptot derates linearly with 7.3 mW/K above 81 °C.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-------------------------------------|---|-----|-----|------|------|
| V _{CC} | supply voltage | | 1.8 | 5.0 | 5.5 | V |
| VI | input voltage | | 0 | - | 5.5 | V |
| Vo | output voltage | output LOW state, 3-state or power- down | 0 | - | 5.5 | V |
| T _{amb} | ambient temperature | | -40 | +25 | +125 | °C |
| Δt/ΔV | input transition rise and fall rate | V _{CC} = 2.3 V to 2.7 V | - | - | 50 | ms/V |
| | | V _{CC} = 3.0 V to 3.6 V | - | - | 20 | ms/V |
| | | V_{CC} = 4.5 V to 5.5 V | - | - | 1 | ms/V |

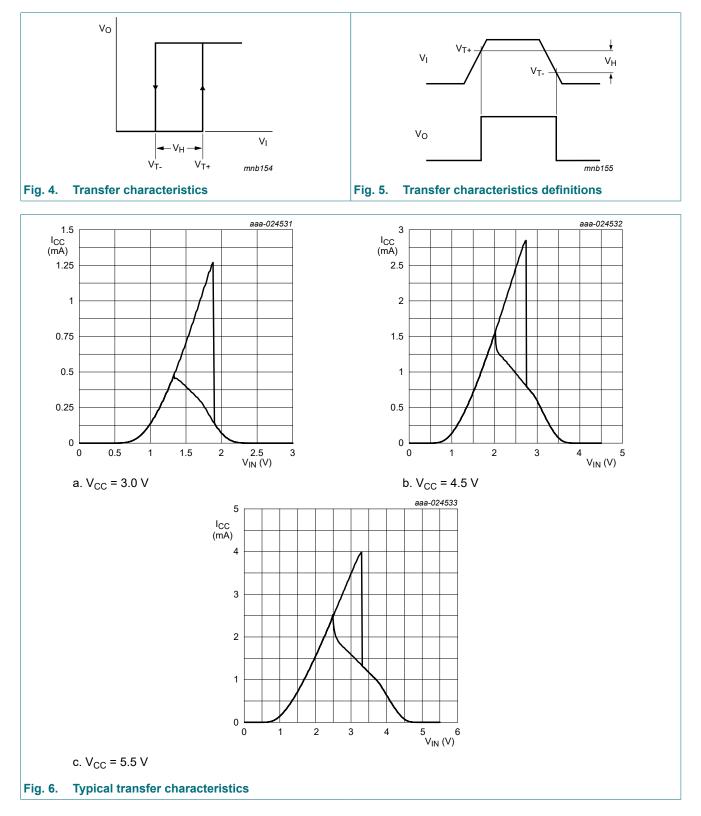
9. Static characteristics

Table 6. Static characteristics

Voltages are referenced to GND (ground = 0 V).

| Symbol | Parameter | Conditions | | 25 °C | | -40 °C to +85 °C | | -40 °C to +125 °C | | Unit |
|------------------|---------------------------------|--|------|-------|-------|------------------|------|-------------------|------|------|
| | | | Min | Тур | Max | Min | Max | Min | Max | |
| V _{T+} | positive-going | V _{CC} = 1.8 V | - | - | 1.65 | - | 1.65 | - | 1.65 | V |
| | threshold voltage | V _{CC} = 2.3 V | - | - | 1.85 | - | 1.85 | - | 1.85 | V |
| | voltage | V _{CC} = 3.0 V | - | - | 2.2 | - | 2.2 | - | 2.2 | V |
| | | V _{CC} = 4.5 V | - | - | 3.15 | - | 3.15 | - | 3.15 | V |
| | | V _{CC} = 5.5 V | - | - | 3.85 | - | 3.85 | - | 3.85 | V |
| V _{T-} | negative-going | V _{CC} = 1.8 V | 0.15 | - | - | 0.15 | - | 0.15 | - | V |
| | threshold voltage | V _{CC} = 2.3 V | 0.45 | - | - | 0.45 | - | 0.45 | - | V |
| | voltage | V _{CC} = 3.0 V | 0.9 | - | - | 0.9 | - | 0.9 | - | V |
| | | V _{CC} = 4.5 V | 1.35 | - | - | 1.35 | - | 1.35 | - | V |
| | | V _{CC} = 5.5 V | 1.65 | - | - | 1.65 | - | 1.65 | - | V |
| V _H | hysteresis | V _{CC} = 1.8 V | 0.15 | - | 1.05 | 0.15 | 1.05 | 0.15 | 1.05 | V |
| | voltage | V _{CC} = 2.3 V | 0.2 | - | 1.1 | 0.2 | 1.1 | 0.2 | 1.1 | V |
| | | V _{CC} = 3.0 V | 0.3 | - | 1.2 | 0.3 | 1.2 | 0.3 | 1.2 | V |
| | | V _{CC} = 4.5 V | 0.4 | - | 1.4 | 0.4 | 1.4 | 0.4 | 1.4 | V |
| | | V _{CC} = 5.5 V | 0.5 | - | 1.6 | 0.5 | 1.6 | 0.5 | 1.6 | V |
| V _{OL} | LOW-level | $V_{I} = V_{T+}$ or V_{T-} | | | | | | | | |
| | output voltage | I _O = 50 μA; V _{CC} = 1.8 V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 50 μA; V _{CC} = 3.0 V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 50 μA; V _{CC} = 4.5 V | - | 0 | 0.1 | - | 0.1 | - | 0.1 | V |
| | | I _O = 8 mA; V _{CC} = 3.0 V | - | - | 0.36 | - | 0.44 | - | 0.44 | V |
| | | I _O = 16 mA; V _{CC} = 4.5 V | - | - | 0.44 | - | 0.55 | - | 0.55 | V |
| I _{OZ} | OFF-state output current | V_{CC} = 5.5 V; V _I = V _{IH} or V _{IL} ; V _O = GND to 5.5 V | - | - | ±0.25 | - | ±2.5 | - | ±2.5 | μA |
| I _{OFF} | power-off leakage current | V_{I} or V_{O} = GND to 5.5 V; V_{CC} = 0 V | - | - | 0.5 | - | 5 | - | 5 | μA |
| lı | input leakage current | $V_I = V_{CC}$ or GND; $V_{CC} = 0 V$ to 5.5 V | - | - | ±0.1 | - | ±1 | - | ±1 | μA |
| I _{CC} | supply current | $V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5$ V | - | - | 2 | - | 20 | - | 20 | μA |

9.1. Transfer characteristics waveforms



10. Dynamic characteristics

Table 7. Dynamic characteristics

GND = 0 V. For test circuit see Fig. 8.

| Symbol | Parameter | Conditions | | 25 °C | | -40 °C to +85 °C | | -40 °C to +125 °C | | Unit |
|------------------|-------------------------------------|---|-----|------------|------|------------------|------|-------------------|------|------|
| | | | Min | Тур [1] | Max | Min | Мах | Min | Мах | |
| t _{PZL} | | nA to nY; see <u>Fig. 7</u> | | | | | | | | |
| | LOW | V _{CC} = 2.3 V to 2.7 V | | | | | | | | |
| | delay | C _L = 15 pF | - | 5.2 | 10.4 | 1 | 13 | 1 | 13.9 | ns |
| | | C _L = 50 pF | - | 7.5 | 15.2 | 1 | 18 | 1 | 19.6 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | | | | | | | | |
| | | C _L = 15 pF | - | 3.9 | 7.1 | 1 | 8.5 | 1 | 9.2 | ns |
| | | C _L = 50 pF | - | 5.8 | 10.6 | 1 | 12 | 1 | 13 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | |
| | | C _L = 15 pF | - | 3 | 5.5 | 1 | 6.5 | 1 | 7.0 | ns |
| | | C _L = 50 pF | - | 4.6 | 7.5 | 1 | 8.5 | 1 | 9.2 | ns |
| t _{PLZ} | LOW to | nA to nY; see <u>Fig. 7</u> | | | | | | | | |
| | OFF-state propagation | V _{CC} = 2.3 V to 2.7 V | | | | | | | | |
| | delay | C _L = 15 pF | - | 5.8 | 9.1 | 1 | 11.1 | 1 | 11.6 | ns |
| | | C _L = 50 pF | - | 10.4 | 15.2 | 1 | 18 | 1 | 18.6 | ns |
| | | V _{CC} = 3.0 V to 3.6 V | | | | | | | | |
| | | C _L = 15 pF | - | 4.7 | 6.5 | 1 | 7.6 | 1 | 8.1 | ns |
| | | C _L = 50 pF | - | 8.1 | 10.6 | 1 | 12 | 1 | 12.5 | ns |
| | | V _{CC} = 4.5 V to 5.5 V | | | | | | | | |
| | | C _L = 15 pF | - | 3.8 | 5 | 1 | 5.8 | 1 | 6.1 | ns |
| | | C _L = 50 pF | - | 6.0 | 7.5 | 1 | 8.5 | 1 | 8.8 | ns |
| Cı | input capacitance | $V_I = V_{CC}$ or GND; $V_{CC} = 3.3 V$ | - | 2 | 6 | - | 6 | - | 6 | pF |
| Co | output capacitance | $V_{O} = V_{CC}$ or GND; $V_{CC} = 3.3 V$ | - | 5 | - | - | - | - | - | pF |
| C _{PD} | power dissipation capacitance | per buffer; $C_L = 0 \text{ pF}$; [2] f = 10 MHz; $V_{CC} = 5 \text{ V}$; $V_I = \text{GND to } V_{CC}$ | - | 3 | - | - | - | - | - | pF |

Typical values are measured at T_{amb} = 25 °C and V_{CC} = 2.5 V, 3.3 V, and 5 V respectively, unless otherwise specified. C_{PD} is used to determine the dynamic power dissipation P_D (μ W). P_D = C_{PD} × V_{CC}² × f_i + \sum (C_L × V_{CC}² × f_o) where: [1]

[2]

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

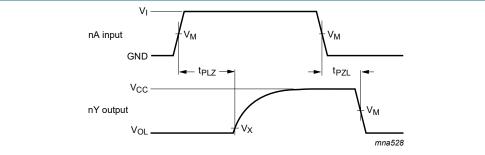
 V_{CC} = supply voltage in V.

Table 8. Noise characteristics

GND = 0 V. For test circuit see Fig. 8.

| Symbol | Parameter | Conditions | T, | T _{amb} = 25 °C | | | |
|-----------------------|---------------------------------------|------------|-------------|--------------------------|------|---|--|
| | | | Min Typ Max | | Max | | |
| $V_{CC} = 3.3$ | V; C _L = 50 pF | | · · · · | | · | | |
| V _{OL(p)} | LOW-level output voltage (peak) | | - | 0.3 | 0.8 | V | |
| V _{OL(v)} | LOW-level output voltage (valley) | | -0.8 | -0.1 | - | V | |
| V _{IH(AC)} | AC HIGH-level input voltage (dynamic) | | 2.31 | - | - | V | |
| V _{IL(AC)} | AC LOW-level input voltage (dynamic) | | - | - | 0.99 | V | |
| V _{CC} = 5.0 | V; C _L = 50 pF | | · · · · | | | | |
| V _{OL(p)} | LOW-level output voltage (peak) | | - | 0.6 | - | V | |
| V _{OL(v)} | LOW-level output voltage (valley) | | - | -0.4 | - | V | |
| V _{IH(AC)} | AC HIGH-level input voltage (dynamic) | | 3.5 | - | - | V | |
| V _{IL(AC)} | AC LOW-level input voltage (dynamic) | | - | - | 1.5 | V | |

10.1. Waveforms and test circuit



Measurement points are given in <u>Table 9</u>.

 V_{OL} is the typical voltage output level that occurs with the output load.

Fig. 7. Propagation delay input (nA) to output (nY)

Table 9. Measurement points

| Input | Output | | |
|---------------------|---------------------|-------------------------|--|
| V _M | V _M | v _x | |
| $0.5 \times V_{CC}$ | $0.5 \times V_{CC}$ | V _{OL} + 0.3 V | |

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Hex buffer with open-drain outputs

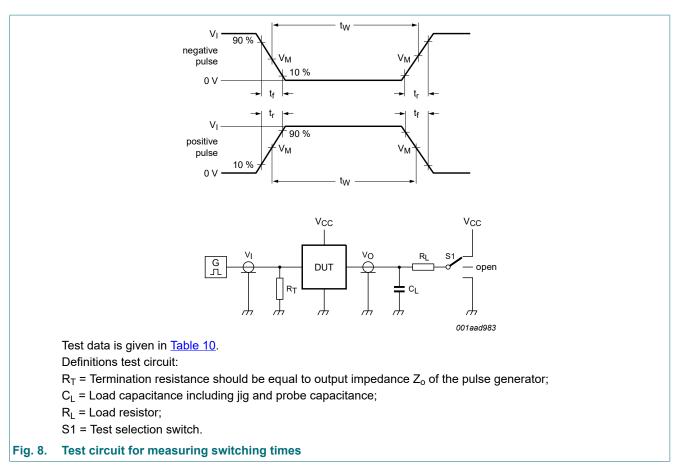


Table 10. Test data

| Input | | Load | | S1 position |
|------------------------|---------------------------------|--------------|------|-------------------------------------|
| VI | t _r , t _f | CL | RL | t _{PLZ} , t _{PZL} |
| GND to V _{CC} | 3.0 ns | 15 pF, 50 pF | 1 kΩ | V _{CC} |

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74AHCV07A

Hex buffer with open-drain outputs

11. Package outline

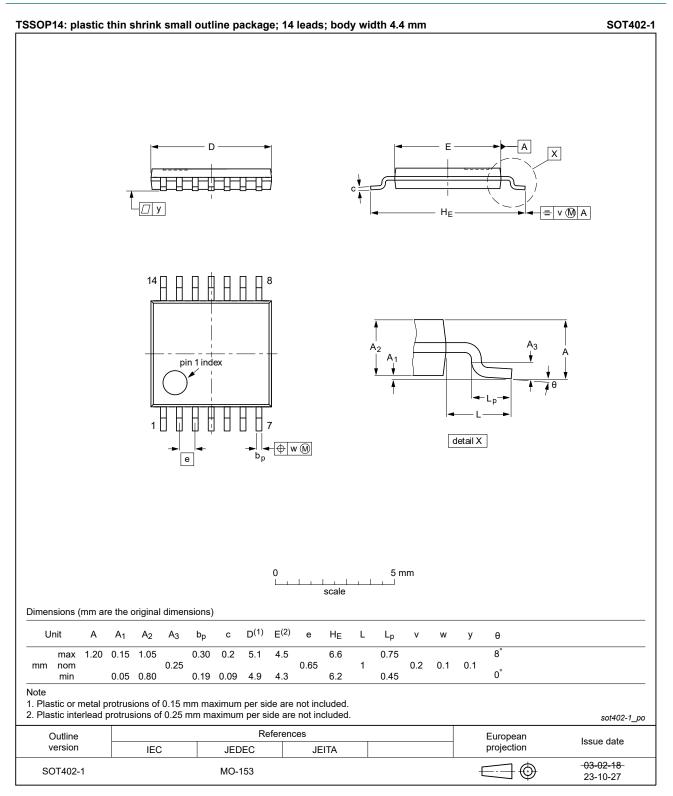


Fig. 9. Package outline SOT402-1 (TSSOP14)

12. Abbreviations

| able 11. Abbreviations | | |
|------------------------|-----------------------------|--|
| Acronym | Description | |
| CDM | Charge Device Model | |
| DUT | Device Under Test | |
| ESD | ElectroStatic Discharge | |
| НВМ | Human Body Model | |
| TTL | Transistor-Transistor Logic | |

13. Revision history

Table 12. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|----------------|--|--------------------------|-------------------|---------------|
| 74AHCV07A v.3 | 20240123 | Product data sheet | - | 74AHCV07A v.2 |
| Modifications: | • Fig. 9: Align | ed TSSOP package outline | e drawings to JED | EC MO-153. |
| 74AHCV07A v.2 | 20230927 | Product data sheet | - | 74AHCV07A v.1 |
| Modifications | 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. <u>Section 2</u>: ESD specification updated according to the latest JEDEC standard. <u>Table 4</u>: Derating values for P_{tot} total power dissipation updated. | | | |
| 74AHCV07A v.1 | 20161219 | Product data sheet | - | - |

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Hex buffer with open-drain outputs

14. 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. |
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