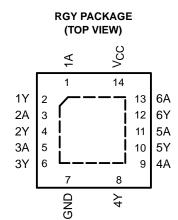


FEATURES

- Optimized for 1.8-V Operation and Is 3.6-V I/O Tolerant to Support Mixed-Mode Signal Operation
- I_{off} Supports Partial-Power-Down Mode Operation
- Sub-1-V Operable
- Max t_{pd} of 2.2 ns at 1.8 V
- Low Power Consumption, 10-μA Max I_{CC}
- ±8-mA Output Drive at 1.8 V
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)



DESCRIPTION/ORDERING INFORMATION

This hex buffer/driver is operational at 0.8-V to 2.7-V V_{CC} , but is designed specifically for 1.65-V to 1.95-V V_{CC} operation.

The outputs of the SN74AUC07 are open drain and can be connected to other open-drain outputs to implement active-low wired-OR or active-high wired-AND functions.

This device is fully specified for partial-power-down applications using I_{off} . The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

ORDERING INFORMATION

| T _A | PACKA | GE ⁽¹⁾ | ORDERABLE PART NUMBER | TOP-SIDE MARKING | |
|----------------|-----------|-------------------|-----------------------|------------------|--|
| –40°C to 85°C | QFN – RGY | Tape and reel | SN74AUC07RGYR | MS07 | |

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE (EACH BUFFER/DRIVER)

| INPUT A | OUTPUT Y |
|------------|-------------|
| Н | Н |
| L | L |

LOGIC DIAGRAM, EACH BUFFER/DRIVER (POSITIVE LOGIC)





Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

SN74AUC07 HEX BUFFER/DRIVER WITH OPEN-DRAIN OUTPUT

SCES472-AUGUST 2003-REVISED NOVEMBER 2005



Absolute Maximum Ratings(1)

over operating free-air temperature range (unless otherwise noted)

| | | | | MIN | MAX | UNIT |
|------------------|--|--------------------|----|------|-----|------|
| V_{CC} | V _{CC} Supply voltage range | | | | | V |
| VI | Input voltage range ⁽²⁾ | | | | 3.6 | V |
| Vo | V _O Output voltage range ⁽²⁾ | | | | | V |
| I _{IK} | Input clamp current | V _I < 0 | | | -50 | mA |
| I_{OK} | Output clamp current | V _O < 0 | | | -50 | mA |
| IO | Continuous output current | | | | ±20 | mA |
| | Continuous current through V _{CC} or GND | | | | | mA |
| θ_{JA} | Package thermal impedance ⁽³⁾ | | 47 | °C/W | | |
| T _{stg} | T. Others to the second second | | | | | °C |

⁽¹⁾ Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

- (2) The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.
- (3) The package thermal impedance is calculated in accordance with JESD 51-5.

Recommended Operating Conditions(1)

| | | | MIN | MAX | UNIT | |
|----------------|------------------------------------|--|-----------------|----------------------|------|--|
| V_{CC} | Supply voltage | | 0.8 | 2.7 | V | |
| | | V _{CC} = 0.8 V | V _{CC} | | | |
| V_{IH} | High-level input voltage | el input voltage $V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$ | | | V | |
| | | V _{CC} = 2.3 V to 2.7 V | 1.7 | | | |
| | | V _{CC} = 0.8 V | | 0 | | |
| V_{IL} | Low-level input voltage | V _{CC} = 1.1 V to 1.95 V | | $0.35 \times V_{CC}$ | V | |
| | | V _{CC} = 2.3 V to 2.7 V | | 0.7 | | |
| VI | Input voltage | | 0 | 3.6 | V | |
| Vo | Output voltage | | 0 | 3.6 | V | |
| | | V _{CC} = 0.8 V | | 0.7 | | |
| | | V _{CC} = 1.1 V | | 3 | | |
| I_{OL} | Low-level output current | V _{CC} = 1.4 V | | 5 | mA | |
| | | V _{CC} = 1.65 V | | 8 | | |
| | | V _{CC} = 2.3 V | | 9 | | |
| Δt/Δν | Input transition rise or fall rate | | | 20 | ns/V | |
| T _A | Operating free-air temperature | | -40 | 85 | °C | |

⁽¹⁾ All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.



SN74AUC07 HEX BUFFER/DRIVER WITH OPEN-DRAIN OUTPUT

Electrical Characteristics

over recommended operating free-air temperature range (unless otherwise noted)

| | PARAMETER | TEST CONDITIONS | V _{cc} | MIN TYP ⁽¹⁾ MAX | UNIT | |
|------------------|-----------|----------------------------------|-----------------|----------------------------|------|--|
| | | $I_{OL} = 100 \mu A$ | 0.8 V to 2.7 V | 0.2 | | |
| | | $I_{OL} = 0.7 \text{ mA}$ | 0.8 V | 0.25 | | |
| Vol | | $I_{OL} = 3 \text{ mA}$ | 1.1 V | 0.3 | V | |
| | | I _{OL} = 5 mA | 1.4 V | 0.4 | V | |
| | | $I_{OL} = 8 \text{ mA}$ | 1.65 V | 0.45 | | |
| | | $I_{OL} = 9 \text{ mA}$ | 2.3 V | 0.6 | | |
| I | A inputs | $V_I = V_{CC}$ or GND | 0 to 2.7 V | ±5 | μΑ | |
| I _{off} | | V_I or $V_O = 2.7 \text{ V}$ | 0 | ±10 | μΑ | |
| I_{CC} | | $V_I = V_{CC}$ or GND, $I_O = 0$ | 0.8 V to 2.7 V | 10 | μΑ | |
| C_{i} | | $V_I = V_{CC}$ or GND | 2.5 V | 2.5 | pF | |

⁽¹⁾ All typical values are at $T_A = 25$ °C.

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 15 \text{ pF}$ (unless otherwise noted) (see Figure 1)

| PARAMETER | IETER FROM T | | $V_{CC} = 0.8 \text{ V}$ $V_{CC} = 1.2 \text{ V}$ $\pm 0.1 \text{ V}$ | | | V _{CC} = 1.5 V ± 0.1 V | | V _{CC} = 1.8 V ± 0.15 V | | | V _{CC} = 2.5 V ± 0.2 V | | UNIT |
|-----------------|--------------|----------------|---|-----|-----|------------------------------------|-----|-------------------------------------|-----|-----|------------------------------------|-----|------|
| | (INPUT) | NPUT) (OUTPUT) | TYP | MIN | MAX | MIN | MAX | MIN | TYP | MAX | MIN | MAX | |
| t _{pd} | Α | Y | 4.5 | 0.9 | 3.5 | 0.7 | 2.8 | 0.6 | 1.4 | 2.8 | 0.6 | 2.3 | ns |

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ (unless otherwise noted) (see Figure 1)

| PARAMETER | FROM (INPUT) | TO (OUTPUT) | V _C | _C = 1.8 0.15 V | V | V _{CC} = 2.5 V ± 0.2 V | | UNIT |
|-----------------|-----------------|----------------|----------------|------------------------------|-----|------------------------------------|-----|------|
| | (INPUT) | (001701) | MIN | TYP | MAX | MIN | MAX | |
| t _{pd} | А | Υ | 0.8 | 1.4 | 2.3 | 0.2 | 1.3 | ns |

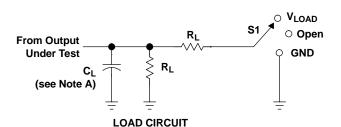
Operating Oharacteristics

 $T_A = 25^{\circ}C$

| | PARAMETER | TEST CONDITIONS | V _{CC} = 0.8 V TYP | V _{CC} = 1.2 V TYP | V _{CC} = 1.5 V TYP | V _{CC} = 1.8 V TYP | V _{CC} = 2.5 V TYP | UNIT |
|----------|-------------------------------|--------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------|
| C_{pd} | Power dissipation capacitance | f = 10 MHz | 2 | 2 | 2 | 3 | 3 | pF |

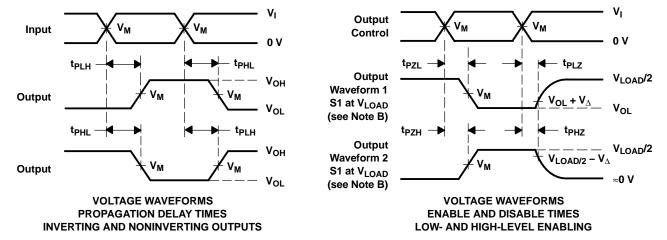


PARAMETER MEASUREMENT INFORMATION (Open Drain)



| TEST | S 1 |
|--------------------------------------|-------------------|
| t _{PZL} (see Notes E and F) | V _{LOAD} |
| t _{PLZ} (see Notes E and G) | V _{LOAD} |
| t _{PHZ} /t _{PZH} | V _{LOAD} |

| | IN | PUT | | | _ | | |
|--------------------|-----------------|--------------------------------|--------------------|-------------------|-------|----------------|-----------------------|
| V _{CC} | VI | t _r /t _f | V _M | V _{LOAD} | CL | R _L | $oldsymbol{V}_\Delta$ |
| 0.8 V | Vcc | ≤ 2 ns | V _{CC} /2 | 2×V _{CC} | 15 pF | 2 k Ω | 0.1 V |
| 1.2 V \pm 0.1 V | V _{CC} | ≤ 2 ns | V _{CC} /2 | 2×V _{CC} | 15 pF | 2 k Ω | 0.1 V |
| 1.5 V \pm 0.1 V | V _{CC} | ≤ 2 ns | V _{CC} /2 | 2×V _{CC} | 15 pF | 2 k Ω | 0.1 V |
| 1.8 V \pm 0.15 V | V _{CC} | ≤ 2 ns | V _{CC} /2 | 2×V _{CC} | 15 pF | 2 k Ω | 0.15 V |
| 2.5 V \pm 0.2 V | V _{CC} | ≤ 2 ns | V _{CC} /2 | 2×V _{CC} | 15 pF | 2 k Ω | 0.15 V |
| 1.8 V \pm 0.15 V | V _{CC} | ≤ 2 ns | V _{CC} /2 | 2×V _{CC} | 30 pF | 1 k Ω | 0.15 V |
| 2.5 V \pm 0.2 V | V _{CC} | ≤ 2 ns | V _{CC} /2 | 2×V _{CC} | 30 pF | 500 Ω | 0.15 V |



NOTES: A. C_L includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, $Z_0 = 50 \Omega$.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. Since this device has open-drain outputs, t_{PLZ} and t_{PZL} are the same as t_{pd} .
- F. t_{PZL} is measured at V_M .
- G. t_{PLZ} is measured at V_{OL} + V_{Δ} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms



PACKAGE OPTION ADDENDUM

24-Aug-2018

PACKAGING INFORMATION

| Orderable Device | Status | Package Type | • | Pins | _ | Eco Plan | Lead/Ball Finish | MSL Peak Temp | Op Temp (°C) | Device Marking | Samples |
|------------------|--------|--------------|---------|------|------|----------------------------|------------------|---------------------|--------------|----------------|---------|
| | (1) | | Drawing | | Qty | (2) | (6) | (3) | | (4/5) | |
| SN74AUC07RGYR | ACTIVE | VQFN | RGY | 14 | 3000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-2-260C-1 YEAR | -40 to 85 | MS07 | Samples |

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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PACKAGE MATERIALS INFORMATION

www.ti.com 26-Jan-2013

TAPE AND REEL INFORMATION





| A0 | |
|----|---|
| B0 | Dimension designed to accommodate the component length |
| K0 | Dimension designed to accommodate the component thickness |
| W | Overall width of the carrier tape |
| P1 | Pitch between successive cavity centers |

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

| Device | Package Type | Package Drawing | | | Reel Diameter (mm) | Reel Width W1 (mm) | A0 (mm) | B0 (mm) | K0 (mm) | P1 (mm) | W (mm) | Pin1 Quadrant |
|---------------|-----------------|--------------------|----|------|--------------------------|--------------------------|------------|------------|------------|------------|-----------|------------------|
| SN74AUC07RGYR | VQFN | RGY | 14 | 3000 | 330.0 | 12.4 | 3.75 | 3.75 | 1.15 | 8.0 | 12.0 | Q1 |

www.ti.com 26-Jan-2013



*All dimensions are nominal

| Device Package Type | | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) | |
|---------------------|------|-----------------|------|------|-------------|------------|-------------|--|
| SN74AUC07RGYR | VQFN | RGY | 14 | 3000 | 367.0 | 367.0 | 35.0 | |



NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. QFN (Quad Flatpack No-Lead) package configuration.
- D. The package thermal pad must be soldered to the board for thermal and mechanical performance.
- E. See the additional figure in the Product Data Sheet for details regarding the exposed thermal pad features and dimensions.
- Pin 1 identifiers are located on both top and bottom of the package and within the zone indicated. The Pin 1 identifiers are either a molded, marked, or metal feature.
- G. Package complies to JEDEC MO-241 variation BA.



RGY (S-PVQFN-N14)

PLASTIC QUAD FLATPACK NO-LEAD

THERMAL INFORMATION

This package incorporates an exposed thermal pad that is designed to be attached directly to an external heatsink. The thermal pad must be soldered directly to the printed circuit board (PCB). After soldering, the PCB can be used as a heatsink. In addition, through the use of thermal vias, the thermal pad can be attached directly to the appropriate copper plane shown in the electrical schematic for the device, or alternatively, can be attached to a special heatsink structure designed into the PCB. This design optimizes the heat transfer from the integrated circuit (IC).

For information on the Quad Flatpack No—Lead (QFN) package and its advantages, refer to Application Report, QFN/SON PCB Attachment, Texas Instruments Literature No. SLUA271. This document is available at www.ti.com.

The exposed thermal pad dimensions for this package are shown in the following illustration.



Bottom View

Exposed Thermal Pad Dimensions

4206353-2/P 03/14

NOTE: All linear dimensions are in millimeters



RGY (S-PVQFN-N14)

PLASTIC QUAD FLATPACK NO-LEAD



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. This package is designed to be soldered to a thermal pad on the board. Refer to Application Note, Quad Flat—Pack QFN/SON PCB Attachment, Texas Instruments Literature No. SLUA271, and also the Product Data Sheets for specific thermal information, via requirements, and recommended board layout. These documents are available at www.ti.com http://www.ti.com.
- E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC 7525 for stencil design considerations.
- F. Customers should contact their board fabrication site for minimum solder mask web tolerances between signal pads.



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