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|--------------------------------|---|
| Title of Change: | Correction of Typos in Datasheet changes included in FPCNs per list below for VHC, HC, SZ, and WZ devices with Hysteresis. |
| Effective date: | 02 Jul 2020 |
| Contact information: | Contact your local ON Semiconductor Sales Office or logic.fpcn@onsemi.com |
| Type of notification: | This Product Bulletin is for notification purposes only. ON Semiconductor will proceed with implementation of this change upon publication of this Product Bulletin. |
| Change Category: | Datasheet Change |
| Change Sub-Category(s): | Datasheet/Product Doc change |

Sites Affected:

| | |
|-------------------------------|--------------------------------------|
| ON Semiconductor Sites | External Foundry/Subcon Sites |
| None | None |

Description and Purpose:

ON Semiconductor is updating its Datasheets for MC74HC1G14, VHC, SZ, and WZ families of devices to correct typo errors found after the new datasheet format changes were announced in the PCNs and in PBs.

For MC74HC1G14 Family:

Current Datasheet:

New Datasheet:

| | | | | |
|---------------|------------------------------|--------------------------------------|------------------------|----|
| $I_{LATCHUP}$ | Latchup Performance (Note 3) | SC-88A (NLV), 60F-28, SC-88A, SC-74A | ± 500 ± 100 | mA |
|---------------|------------------------------|--------------------------------------|------------------------|----|

| | | | | |
|---------------|------------------------------|------------------------------|------------------------|----|
| $I_{LATCHUP}$ | Latchup Performance (Note 3) | SC-88A (NLV), SC-88A, SC-74A | ± 500 ± 100 | mA |
|---------------|------------------------------|------------------------------|------------------------|----|

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Max | Unit | |
|------------|-----------------------------|--|------------------|--|------|
| V_{CC} | DC Supply Voltage | 2.0 | 6.0 | V | |
| V_{IN} | DC Input Voltage | 0.0 | V_{CC} | V | |
| V_{OUT} | DC Output Voltage | 0.0 | V_{CC} | V | |
| T_A | Operating Temperature Range | -55 | +125 | °C | |
| t_r, t_f | Input Rise and Fall Time | SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ | - - - - | No Limit No Limit No Limit No Limit | ns/V |
| | | SC-88A, SC-74A $V_{CC} = 1.65\text{ V to }1.98\text{ V}$ $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$ | - - - - | 20 20 10 5 | |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Max | Unit | |
|------------|-----------------------------|---|------------------|--|------|
| V_{CC} | DC Supply Voltage | 2.0 | 6.0 | V | |
| V_{IN} | DC Input Voltage | 0.0 | V_{CC} | V | |
| V_{OUT} | DC Output Voltage | 0.0 | V_{CC} | V | |
| T_A | Operating Temperature Range | -55 | +125 | °C | |
| t_r, t_f | Input Rise and Fall Time | SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ | - - - - | No Limit No Limit No Limit No Limit | ns/V |
| | | SC-88A, SC-74A $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$ | - - - - | No Limit No Limit No Limit | |

| | | | | | | | | | | | |
|----------|--------------------------|--------------------------------|-----|---|---|-----------|---|-----------|---|-----------|---------------|
| I_{IN} | Input Leakage Current | $V_{IN} = 6.0\text{ V or GND}$ | 6.0 | - | - | ± 0.1 | - | ± 1.0 | - | ± 1.0 | μA |
| I_{CC} | Quiescent Supply Current | $V_{IN} = V_{CC}$ or GND | 6.0 | - | - | 1.0 | - | 10 | - | 40 | μA |

| | | | | | | | | | | | |
|----------|--------------------------|--------------------------------|-----|---|---|-----------|---|-----------|---|-----------|---------------|
| I_{IN} | Input Leakage Current | $V_{IN} = 6.0\text{ V or GND}$ | 6.0 | - | - | ± 0.1 | - | ± 1.0 | - | ± 1.0 | μA |
| I_{CC} | Quiescent Supply Current | $V_{IN} = V_{CC}$ or GND | 6.0 | - | - | 1.0 | - | 10 | - | 40 | μA |

*Guaranteed by design.

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = t$)

| Symbol | Parameter | Test Conditions |
|--------------------------|--|---|
| t_{PLH} , t_{PHL} | Propagation Delay, Input A or B to $\frac{V_{CC}}{2}$ | $V_{CC} = 5.0\text{ V}$ $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$ $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ |

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = t$)

| Symbol | Parameter | Test Conditions |
|--------------------------|---|---|
| t_{PLH} , t_{PHL} | Propagation Delay, Input A or B to Y | $V_{CC} = 5.0\text{ V}$ $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$ $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ |

For MC74VHC1G14/MC74VHC1GT14 Family:

Current Datasheet:

New Datasheet:

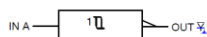


Figure 1. Logic Symbol

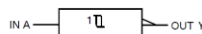


Figure 1. Logic Symbol



FUNCTION TABLE

| A Input | \bar{Y} Output |
|---------|------------------|
| L | H |
| H | L |

FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | H |
| H | L |

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit |
|-----------------------|--|--|------|
| V_{CC} | DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IN} | DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current $V_{IN} < GND$ | -20 | mA |
| I_{OK} | DC Output Diode Current $V_{OUT} < GND$ | +20 | mA |
| I_{OUI} | DC Output Source/Sink Current | +25 | mA |
| I_{CC} or I_{GND} | DC Supply Current per Supply Pin or Ground Pin | +50 | mA |
| T_{STG} | Storage Temperature Range | -65 to +150 | °C |

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit |
|-----------------------|--|--|------|
| V_{CC} | DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IN} | DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current $V_{IN} < GND$ | -20 | mA |
| I_{OK} | DC Output Diode Current $V_{OUT} < GND$ | -20 | mA |
| I_{OUI} | DC Output Source/Sink Current | 25 | mA |
| I_{CC} or I_{GND} | DC Supply Current per Supply Pin or Ground Pin | 50 | mA |
| T_{STG} | Storage Temperature Range | -65 to +150 | °C |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|------------|---|-----|--------------------------|------|
| V_{CC} | Positive DC Supply Voltage | 2.0 | 5.5 | V |
| V_{IN} | DC Input Voltage | 0 | 5.5 | V |
| V_{OUT} | DC Output Voltage TSOP-5, SC-88A (NLV) | 0 | V_{CC} | V |
| | DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | 0 | 5.5 V_{CC} 5.5 | V |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time TSOP-5, SC-88A (NLV) $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V | 0 | +100 -100 | ns/V |
| | Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 $V_{CC} = 4.5$ V to 5.5 V $V_{CC} = 2.3$ V to 2.7 V $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V | 0 | +20 -20 +10 -10 | ns/V |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|------------|---|-----|----------------------------------|------|
| V_{CC} | Positive DC Supply Voltage | 2.0 | 5.5 | V |
| V_{IN} | DC Input Voltage | 0 | 5.5 | V |
| V_{OUT} | DC Output Voltage TSOP-5, SC-88A (NLV) | 0 | V_{CC} | V |
| | DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | 0 | V_{CC} 5.5 5.5 | V |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time TSOP-5, SC-88A (NLV) $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V | 0 | No Limit No Limit | ns/V |
| | Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 $V_{CC} = 2.3$ V to 2.7 V $V_{CC} = 3.0$ V to 3.6 V $V_{CC} = 4.5$ V to 5.5 V | 0 | No Limit No Limit No Limit | ns/V |

| | | | | | |
|-----------|--|-------------|---|---|-----------------|
| I_{IN} | Input Leakage Current $V_{IN} = 5.5$ V or GND | 1.65 to 5.5 | - | - | $\pm 0.1^{\pm}$ |
| I_{OFF} | Power Off Leakage Current $V_{IN} = 5.5$ V or $V_{OUT} = 5.5$ V | 0 | - | - | 1.0 |
| I_{CC} | Quiescent Supply Current $V_{IN} = V_{CC}$ or GND | 5.5 | - | - | 1.0 |

| | | | | | |
|-----------|--|-------------|---|---|-----------|
| I_{IN} | Input Leakage Current $V_{IN} = 5.5$ V or GND | 1.65 to 5.5 | - | - | ± 0.1 |
| I_{OFF} | Power Off Leakage Current $V_{IN} = 5.5$ V or $V_{OUT} = 5.5$ V | 0 | - | - | 1.0 |
| I_{CC} | Quiescent Supply Current $V_{IN} = V_{CC}$ or GND | 5.5 | - | - | 1.0 |

[±]Guaranteed by design.

For NL17SZ14 Family:

Current Datasheet:

New Datasheet:

FUNCTION TABLE

| Input | Output |
|-------|-----------|
| A | \bar{Y} |
| L | H |
| H | L |

FUNCTION TABLE

| Input | Output |
|-------|--------|
| A | Y |
| L | H |
| H | L |

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit |
|-----------|--|--|------|
| V_{CC} | DC Supply Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IN} | DC Input Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current $V_{IN} < GND$ | -50 | mA |
| I_{OK} | DC Output Diode Current $V_{OUT} < GND$ | +50 | mA |

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit |
|-----------|--|--|------|
| V_{CC} | DC Supply Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IN} | DC Input Voltage UDFN6, SOT-553, SC-88A (NLV) SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current $V_{IN} < GND$ | -50 | mA |
| I_{OK} | DC Output Diode Current $V_{OUT} < GND$ | -50 | mA |



RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristic | Min | Max | Unit |
|---------------------------------|--|--|------------------------------|------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 V _{CC} 5.5 | V |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 -100 -20 | ns/V |
| | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 -20 -20 -10 -5 | ns/V |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristic | Min | Max | Unit |
|---------------------------------|--|--|---------------------------------------|------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 V _{CC} 5.5 | V |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 No Limit No Limit | ns/V |
| | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 No Limit No Limit No Limit | ns/V |

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|-------|---|------|----|
| I _{IN} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1* | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|------|---|------|----|
| I _{IN} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1 | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

For NL17SZ17 Family:

Current Datasheet:

The NL17SZ17 is a single ~~Non~~inverting Schmitt Trigger Buffer in tiny footprint packages.

New Datasheet:

The NL17SZ17 is a single Schmitt Trigger Buffer in tiny footprint packages

MAXIMUM RATINGS

| Symbol | Characteristic | Value | Unit | |
|------------------|-------------------------|---|---|----|
| V _{CC} | DC Supply Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current | V _{IN} < GND | -50 | mA |
| I _{OK} | DC Output Diode Current | V _{OUT} < GND | +60 | mA |

MAXIMUM RATINGS

| Symbol | Characteristic | Value | Unit | |
|------------------|-------------------------|---|---|----|
| V _{CC} | DC Supply Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current | V _{IN} < GND | -50 | mA |
| I _{OK} | DC Output Diode Current | V _{OUT} < GND | -50 | mA |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristic | Min | Max | Unit |
|---------------------------------|--|--|------------------------------|------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 V _{CC} 5.5 | V |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 -100 -20 | ns/V |
| | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 -20 -20 -10 -5 | ns/V |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristic | Min | Max | Unit |
|---------------------------------|--|--|---------------------------------------|------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 V _{CC} 5.5 | V |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 No Limit No Limit | ns/V |
| | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 No Limit No Limit No Limit | ns/V |

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|-------|---|------|----|
| I _{IN} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1* | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|------|---|------|----|
| I _{IN} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1 | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.



For NL27WZ14 Family:

Current Datasheet:

New Datasheet:

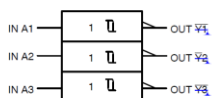
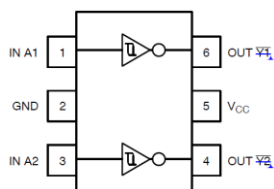


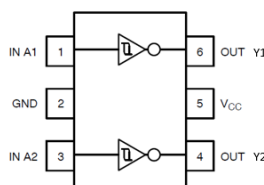
Figure 1. Logic Symbol



Figure 1. Logic Symbol



(SC-88/SC-74/TSOP-6)



(SC-88/SC-74/TSOP-6)

| MAXIMUM RATINGS | | | | |
|------------------|--|---|---|-------|
| Symbol | Characteristics | | Value | Units |
| V _{CC} | DC Supply Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88 (NLV) | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current, V _{IN} < GND | | -50 | mA |
| I _{OK} | DC Output Diode Current, V _{OUT} < GND | | ±60 | mA |

| MAXIMUM RATINGS | | | | |
|------------------|--|---|---|-------|
| Symbol | Characteristics | | Value | Units |
| V _{CC} | DC Supply Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88 (NLV) | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current, V _{IN} < GND | | -50 | mA |
| I _{OK} | DC Output Diode Current, V _{OUT} < GND | | -50 | mA |

For NL27WZ17 Family:

Current Datasheet:

New Datasheet:



Figure 1. Logic Symbol



Figure 1. Logic Symbol

| MAXIMUM RATINGS | | | | |
|------------------|--|---|---|-------|
| Symbol | Characteristics | | Value | Units |
| V _{CC} | DC Supply Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88 (NLV) | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current, V _{IN} < GND | | -50 | mA |
| I _{OK} | DC Output Diode Current, V _{OUT} < GND | | ±60 | mA |

| MAXIMUM RATINGS | | | | |
|------------------|--|---|---|-------|
| Symbol | Characteristics | | Value | Units |
| V _{CC} | DC Supply Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88 (NLV) | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-88, SC-74, TSOP-6, UDFN6 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current, V _{IN} < GND | | -50 | mA |
| I _{OK} | DC Output Diode Current, V _{OUT} < GND | | -50 | mA |

ORDERING INFORMATION

| Device | Package | Specific Device Code | Pin1 Orientation (See below) | Shipping ¹ |
|----------------|---------|----------------------|---------------------------------|-----------------------|
| NL27WZ17DFT2G | SC-88 | MX | G4 | 3000 / Tape & Reel |
| NL27WZ17DFT2G* | SC-88 | MX | G4 | 3000 / Tape & Reel |

ORDERING INFORMATION

| Device | Package | Specific Device Code | Pin1 Orientation (see Below) | Shipping ¹ |
|----------------|---------|----------------------|---------------------------------|-----------------------|
| NL27WZ17DFT2G | SC-88 | MX | G4 | 3000 / Tape & Reel |
| NL27WZ17DFT2G* | SC-88 | MX | G4 | 3000 / Tape & Reel |



For NL37WZ14 Family:

Current Datasheet:

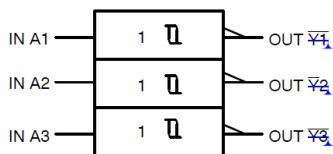


Figure 1. Logic Symbol

FUNCTION TABLE

| A Input | \overline{Y} Output |
|---------|-----------------------|
| L | H |
| H | L |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|------------|-----------------------------------|------|----------|------|
| V_{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V_{IN} | DC Input Voltage | 0 | 5.5 | V |
| V_{OUT} | DC Output Voltage | 0 | V_{CC} | V |
| | Active-Mode (High or Low State) | 0 | 5.5 | |
| | Tri-State Mode (Note 1) | 0 | 5.5 | |
| | Power-Down Mode ($V_{CC} = 0$ V) | 0 | 5.5 | |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time | 0 | -20 | ns/V |
| | $V_{CC} = 1.65$ V to 1.95 V | 0 | -20 | |
| | $V_{CC} = 2.3$ V to 2.7 V | 0 | -10 | |
| | $V_{CC} = 3.0$ V to 3.6 V | 0 | -10 | |
| | $V_{CC} = 4.5$ V to 5.5 V | 0 | -5 | |

New Datasheet:

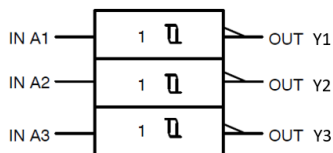


Figure 1. Logic Symbol

FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | H |
| H | L |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|------------|-----------------------------------|------|----------|------|
| V_{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V_{IN} | DC Input Voltage | 0 | 5.5 | V |
| V_{OUT} | DC Output Voltage | 0 | V_{CC} | V |
| | Active-Mode (High or Low State) | 0 | 5.5 | |
| | Tri-State Mode (Note 1) | 0 | 5.5 | |
| | Power-Down Mode ($V_{CC} = 0$ V) | 0 | 5.5 | |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time | 0 | No Limit | ns/V |
| | $V_{CC} = 1.65$ V to 1.95 V | 0 | No Limit | |
| | $V_{CC} = 2.3$ V to 2.7 V | 0 | No Limit | |
| | $V_{CC} = 3.0$ V to 3.6 V | 0 | No Limit | |
| | $V_{CC} = 4.5$ V to 5.5 V | 0 | No Limit | |

For NL37WZ16 Family:

Current Datasheet:

The NL37WZ16 is a high performance buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns t_{PD} at $V_{CC} = 5$ V (Typ)

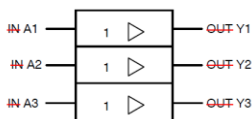


Figure 1. Logic Symbol

New Datasheet:

The NL37WZ16 is a high performance triple buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5$ V (Typ)

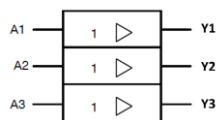
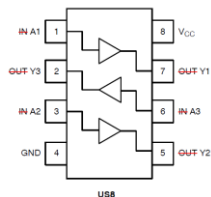


Figure 1. Logic Symbol

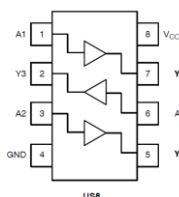


FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |

DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See below) | Shipping [†] |
|--------------------------------|----------|----------------------|-------------------------------|-----------------------|
| NL37WZ16USG | US8 | LA | Q4 | 3000 / Tape & Reel |
| NLV37WZ16USG* (In Development) | US8 | LA | Q4 | 3000 / Tape & Reel |



FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |

DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See below) | Shipping [†] |
|--------------------------------|----------|----------------------|-------------------------------|-----------------------|
| NL37WZ16USG | US8 | LR | Q4 | 3000 / Tape & Reel |
| NLV37WZ16USG* (In Development) | US8 | LR | Q4 | 3000 / Tape & Reel |

For NL37WZ17 Family:

Current Datasheet:

The NL37WZ17 is a high performance buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns tPD at $V_{CC} = 5V$ (Typ)

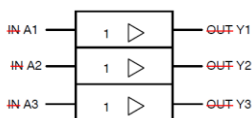
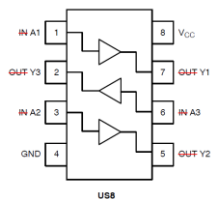


Figure 1. Logic Symbol



FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |

DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See Below) | Shipping [†] |
|--------------|----------|----------------------|-------------------------------|-----------------------|
| NL37WZ17USG | US8 | LA | Q4 | 3000 / Tape & Reel |
| NLV37WZ17USG | US8 | LA | Q4 | 3000 / Tape & Reel |

New Datasheet:

The NL37WZ17 is a high performance triple buffer with inputs operating from a 1.65 V to 5.5 V supply.

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns tPD at $V_{CC} = 5V$ (Typ)

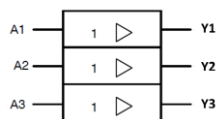
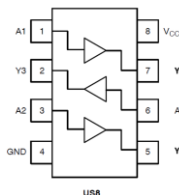


Figure 1. Logic Symbol



FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |

DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See Below) | Shipping [†] |
|--------------|----------|----------------------|-------------------------------|-----------------------|
| NL37WZ17USG | US8 | LX | Q4 | 3000 / Tape & Reel |
| NLV37WZ17USG | US8 | LX | Q4 | 3000 / Tape & Reel |

**List of Affected Standard Parts:**

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the [**PCN Customized Portal**](#).

| | | |
|--------------------|--------------------|--------------------|
| MC74HC1G14DBVT1G | MC74HC1G14DFT1G | MC74HC1G14DFT2G |
| MC74HC1G14DTT1G | MC74HC1G14MX1TCG | MC74VHC1G14DBVT1G |
| MC74VHC1G14DFT1G | MC74VHC1G14MU2TCG | NL27WZ14MU1TCG |
| NL27WZ14MU3TCG | NL27WZ17DFT2G | NL27WZ17MU1TCG |
| NL27WZ17MU3TCG | NL37WZ14MU3TCG | NL37WZ14USG |
| NL37WZ16USG | NL37WZ17USG | MC74VHC1G14DFT2G |
| MC74VHC1G14P5T5G | MC74VHC1G14DTT1G | MC74VHC1GT14DBVT1G |
| MC74VHC1GT14MU1TCG | MC74VHC1GT14MU2TCG | MC74VHC1GT14MU3TCG |
| NL17SZ14DBVT1G | NL17SZ14DFT2G | NL17SZ14P5T5G |
| NL17SZ14XV5T2G | NL17SZ17DBVT1G | NL17SZ17DFT2G |
| NL17SZ17P5T5G | NL17SZ17XV5T2G | NL27WZ14DBVT1G |
| NL27WZ14DFT2G | NL27WZ14DTT1G | NL27WZ17DBVT1G |

Japanese translation of the notification starts here.
通知の日本語訳はここから始まります。

Note: The Japanese version is for reference only. In case of any differences between the English and Japanese version, the English version shall control.

注：日本語版は参照用です。英語版と日本語版の違いがある場合は、英語版が優先されます。



| | |
|-----------|--|
| 変更件名: | ヒステリシス付き VHC、HC、SZ、および WZ 製品の以下のリストの FPCN に含まれるデータシートの変更の誤植の修正 |
| 発効日: | 02 Jul 2020 |
| 連絡先情報: | 現地のオン・セミコンダクター営業所または logic.fpcn@onsemi.com にお問い合わせください。 |
| 通知種別: | 本製品速報は通知目的のみのものです。オン・セミコンダクターは本製品速報の発行により本変更を実行します。 |
| 変更カテゴリ: | データシートの変更 |
| 変更サブカテゴリ: | データシート/製品ドキュメントの変更 |

影響を受ける拠点:

オン・セミコンダクター拠点:

外部製造工場 / 下請業者拠点:

None

None

説明および目的:

オン・セミコンダクターは、MC74HC1G14、VHC、SZ、および WZ 製品ファミリのデータシートを更新して、PCN および PB で新しいデータシートフォーマットの変更がアナウンスされた後に見つかった誤植を修正します。

MC74HC1G14 ファミリの場合:

現在のデータシート:

新しいデータシート:

| | | | | | |
|---------------|------------------------------|--|--|--------------|----|
| $I_{LATCHUP}$ | Latchup Performance (Note 3) | SC-88A (NLV), SOT-23 SC-88A, SC-74A | | ±500 ±100 | mA |
|---------------|------------------------------|--|--|--------------|----|

| | | | | | |
|---------------|------------------------------|--------------------------------|--|--------------|----|
| $I_{LATCHUP}$ | Latchup Performance (Note 3) | SC-88A (NLV) SC-88A, SC-74A | | ±500 ±100 | mA |
|---------------|------------------------------|--------------------------------|--|--------------|----|

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Max | Unit |
|------------|-----------------------------|--|---------------------------------------|------|
| V_{CC} | DC Supply Voltage | 2.0 | 6.0 | V |
| V_{IH} | DC Input Voltage | 0.0 | V_{CC} | V |
| V_{OL} | DC Output Voltage | 0.0 | V_{CC} | V |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time | SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ | - No Limit No Limit No Limit | ns/V |
| | Input Rise and Fall Time | SC-88A, SC-74A $V_{CC} = 1.65\text{ V to }1.96\text{ V}$ $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$ | - 20 20 10 5 | |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Max | Unit |
|------------|-----------------------------|---|---------------------------------------|------|
| V_{CC} | DC Supply Voltage | 2.0 | 6.0 | V |
| V_{IH} | DC Input Voltage | 0.0 | V_{CC} | V |
| V_{OL} | DC Output Voltage | 0.0 | V_{CC} | V |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time | SC-88A (NLV), TSOP-5 $V_{CC} = 2.0\text{ V}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ | - No Limit No Limit No Limit | ns/V |
| | Input Rise and Fall Time | SC-88A, SC-74A $V_{CC} = 2.3\text{ V to }2.7\text{ V}$ $V_{CC} = 3.0\text{ V to }3.6\text{ V}$ $V_{CC} = 4.5\text{ V to }6.0\text{ V}$ | - No Limit No Limit No Limit | |

| | | | | | | | | | | | |
|----------|--------------------------|--------------------------------|-----|---|---|-----------|---|------|---|------|----|
| I_{IN} | Input Leakage Current | $V_{IH} = 6.0\text{ V}$ or GND | 6.0 | - | - | ±0.1 * | - | ±1.0 | - | ±1.0 | µA |
| I_{CC} | Quiescent Supply Current | $V_{IH} = V_{CC}$ or GND | 6.0 | - | - | 1.0 | - | 10 | - | 40 | µA |

*Quarantined by design.

| | | | | | | | | | | | |
|----------|--------------------------|--------------------------------|-----|---|---|------|---|------|---|------|----|
| I_{IN} | Input Leakage Current | $V_{IH} = 6.0\text{ V}$ or GND | 6.0 | - | - | ±0.1 | - | ±1.0 | - | ±1.0 | µA |
| I_{CC} | Quiescent Supply Current | $V_{IH} = V_{CC}$ or GND | 6.0 | - | - | 1.0 | - | 10 | - | 40 | µA |

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = t$)

| Symbol | Parameter | Test Conditions |
|--------------------------|--|---|
| t_{PLH} , t_{PHL} | Propagation Delay, Input A or B to V_O | $V_{CC} = 5.0\text{ V}$, $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$, $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ |

AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = t$)

| Symbol | Parameter | Test Conditions |
|--------------------------|--------------------------------------|---|
| t_{PLH} , t_{PHL} | Propagation Delay, Input A or B to Y | $V_{CC} = 5.0\text{ V}$, $C_L = 15\text{ pF}$ $V_{CC} = 2.0\text{ V}$, $C_L = 50\text{ pF}$ $V_{CC} = 3.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$ |



MC74VHC1G14 / MC74VHC1GT14 ファミリの場合:

現在のデータシート:

新しいデータシート:

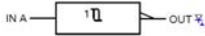


Figure 1. Logic Symbol

| FUNCTION TABLE | |
|----------------|----------|
| A Input | Y Output |
| L | H |
| H | L |

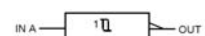


Figure 1. Logic Symbol

| FUNCTION TABLE | |
|----------------|----------|
| A Input | Y Output |
| L | H |
| H | L |

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit |
|-------------------------------------|--|---|------|
| V _{CC} | DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage TSOP-5, SC-88A (NLV) Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| I _{IK} | DC Input Diode Current V _{IN} < GND | -20 | mA |
| I _{OK} | DC Output Diode Current V _{OUT} < GND | -20 | mA |
| I _{OUT} | DC Output Source/Sink Current | ±24.5 | mA |
| I _{CC} or I _{QND} | DC Supply Current per Supply Pin or Ground Pin | ±26 | mA |
| T _{STG} | Storage Temperature Range | -65 to +150 | °C |

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit |
|-------------------------------------|--|---|------|
| V _{CC} | DC Supply Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage TSOP-5, SC-88A (NLV) SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage TSOP-5, SC-88A (NLV) Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| I _{IK} | DC Input Diode Current V _{IN} < GND | -20 | mA |
| I _{OK} | DC Output Diode Current V _{OUT} < GND | -20 | mA |
| I _{OUT} | DC Output Source/Sink Current | 25 | mA |
| I _{CC} or I _{QND} | DC Supply Current per Supply Pin or Ground Pin | 50 | mA |
| T _{STG} | Storage Temperature Range | -65 to +150 | °C |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|---------------------------------|---|-----|-------------------------------|------|
| V _{CC} | Positive DC Supply Voltage | 2.0 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage TSOP-5, SC-88A (NLV) | 0 | V _{CC} | V |
| | DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 | V _{CC} 5.5 5.5 | V |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time TSOP-5, SC-88A (NLV) V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | -100- -20- | ns/V |
| | Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 V _{CC} = 4.5 V to 5.5 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | -20- -20- -10- -10- | ns/V |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|---------------------------------|--|-----|--|------|
| V _{CC} | Positive DC Supply Voltage | 2.0 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage TSOP-5, SC-88A (NLV) | 0 | V _{CC} | V |
| | DC Output Voltage SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 | V _{CC} 5.5 5.5 | V |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time TSOP-5, SC-88A (NLV) V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | No Limit No Limit | ns/V |
| | Input Rise and Fall Time SC-74A, SC-88A, UDFN6, SOT-553, SOT-953 V _{CC} = 2.0 V V _{CC} = 2.3 V to 2.7 V V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | No Limit No Limit No Limit No Limit | ns/V |

| | | | | | | |
|------------------|---------------------------|---|-------------|---|---|-------------------|
| I _{IN} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1 [‡] |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 |

[‡]Guaranteed by design.

| | | | | | | |
|------------------|---------------------------|---|-------------|---|---|------|
| I _{IN} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1 |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 |

NL17SZ14 ファミリの場合:

現在のデータシート:

新しいデータシート:

| FUNCTION TABLE | |
|----------------|--------|
| Input | Output |
| A | Y |
| L | H |
| H | L |

| FUNCTION TABLE | |
|----------------|--------|
| Input | Output |
| A | Y |
| L | H |
| H | L |



MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit | |
|------------------|--|---|---|----|
| V _{CC} | DC Supply Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88A (NLV), UDFN6, SOT-553 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-74A, SC-88A, SOT-953 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current | V _{IN} < GND | -50 | mA |
| I _{OK} | DC Output Diode Current | V _{OUT} < GND | +50 | mA |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|---------------------------------|--|---|------|-----------------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 | V _{CC} |
| | | | 0 | 5.5 |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | +90/-90 |
| | | | 0 | -20 |
| t _r , t _f | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V | 0 | -20 |
| | | V _{CC} = 2.3 V to 2.7 V | 0 | -20 |
| | | V _{CC} = 3.0 V to 3.6 V | 0 | -10 |
| | | V _{CC} = 4.5 V to 5.5 V | 0 | -5 |

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|-------|---|------|----|
| I _{IK} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1* | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit | |
|------------------|--|---|---|----|
| V _{CC} | DC Supply Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88A (NLV), UDFN6, SOT-553 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-74A, SC-88A, SOT-953 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current | V _{IN} < GND | -50 | mA |
| I _{OK} | DC Output Diode Current | V _{OUT} < GND | -50 | mA |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|---------------------------------|--|---|------|----------------------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 | V _{CC} |
| | | | 0 | 5.5 |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | No Limit No Limit |
| | | | 0 | No Limit |
| t _r , t _f | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V | 0 | No Limit |
| | | V _{CC} = 2.3 V to 2.7 V | 0 | No Limit |
| | | V _{CC} = 3.0 V to 3.6 V | 0 | No Limit |
| | | V _{CC} = 4.5 V to 5.5 V | 0 | No Limit |

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|------|---|------|----|
| I _{IK} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1 | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

NL17SZ17 ファミリの場合 :

現在のデータシート:

The NL17SZ17 is a single ~~Non~~inverting Schmitt Trigger Buffer in tiny footprint packages.

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit | |
|------------------|--|---|---|----|
| V _{CC} | DC Supply Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88A (NLV), UDFN6, SOT-553 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-74A, SC-88A, SOT-953 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current | V _{IN} < GND | -50 | mA |
| I _{OK} | DC Output Diode Current | V _{OUT} < GND | +50 | mA |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|---------------------------------|--|---|------|-----------------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 | V _{CC} |
| | | | 0 | 5.5 |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | +90/-90 |
| | | | 0 | -20 |
| t _r , t _f | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V | 0 | -20 |
| | | V _{CC} = 2.3 V to 2.7 V | 0 | -20 |
| | | V _{CC} = 3.0 V to 3.6 V | 0 | -10 |
| | | V _{CC} = 4.5 V to 5.5 V | 0 | -5 |

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|-------|---|------|----|
| I _{IK} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1* | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
*Guaranteed-by-design.

新しいデータシート:

The NL17SZ17 is a single Schmitt Trigger Buffer in tiny footprint packages

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Unit | |
|------------------|--|---|---|----|
| V _{CC} | DC Supply Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{IN} | DC Input Voltage | UDFN6, SOT-553, SC-88A (NLV), SC-74A, SC-88A, SOT-953 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V _{OUT} | DC Output Voltage SC-88A (NLV), UDFN6, SOT-553 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage SC-74A, SC-88A, SOT-953 | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | -0.5 to V _{CC} + 0.5 -0.5 to +6.5 -0.5 to +6.5 | V |
| I _{IK} | DC Input Diode Current | V _{IN} < GND | -50 | mA |
| I _{OK} | DC Output Diode Current | V _{OUT} < GND | -50 | mA |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|---------------------------------|--|---|------|----------------------|
| V _{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V _{IN} | DC Input Voltage | 0 | 5.5 | V |
| V _{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V) | 0 | V _{CC} |
| | | | 0 | 5.5 |
| T _A | Operating Temperature Range | -55 | +125 | °C |
| t _r , t _f | Input Rise and Fall Time (SC-88A (NLV), UDFN6, SOT-553) | V _{CC} = 3.0 V to 3.6 V V _{CC} = 4.5 V to 5.5 V | 0 | No Limit No Limit |
| | | | 0 | No Limit |
| t _r , t _f | Input Rise and Fall Time (SC-74A, SC-88A, SOT-953) | V _{CC} = 1.65 V to 1.95 V | 0 | No Limit |
| | | V _{CC} = 2.3 V to 2.7 V | 0 | No Limit |
| | | V _{CC} = 3.0 V to 3.6 V | 0 | No Limit |
| | | V _{CC} = 4.5 V to 5.5 V | 0 | No Limit |

| | | | | | | | | | |
|------------------|---------------------------|---|-------------|---|---|------|---|------|----|
| I _{IK} | Input Leakage Current | V _{IN} = 5.5 V or GND | 1.65 to 5.5 | - | - | ±0.1 | - | ±1.0 | µA |
| I _{OFF} | Power Off Leakage Current | V _{IN} = 5.5 V or V _{OUT} = 5.5 V | 0 | - | - | 1.0 | - | 10 | µA |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 5.5 | - | - | 1.0 | - | 10 | µA |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

NL27WZ14 ファミリの場合 :

現在のデータシート:

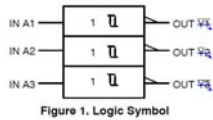
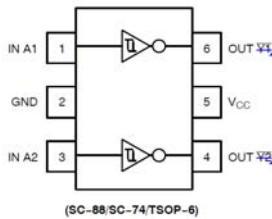


Figure 1. Logic Symbol



(SC-88/SC-74/TSOP-6)

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Units | |
|-----------|--|---|--|----|
| V_{CC} | DC Supply Voltage | SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IH} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current, $V_{IH} < GND$ | | -50 | mA |
| I_{OK} | DC Output Diode Current, $V_{OUT} < GND$ | | +60 | mA |

新しいデータシート:

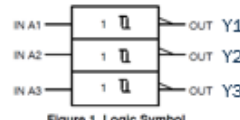
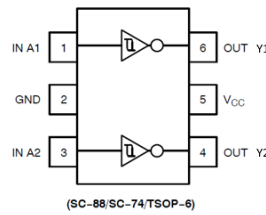


Figure 1. Logic Symbol



(SC-88/SC-74/TSOP-6)

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Units | |
|-----------|--|---|--|----|
| V_{CC} | DC Supply Voltage | SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IH} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current, $V_{IH} < GND$ | | -50 | mA |
| I_{OK} | DC Output Diode Current, $V_{OUT} < GND$ | | -50 | mA |

NL27WZ17 ファミリの場合 :

現在のデータシート:

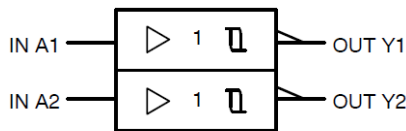


Figure 1. Logic Symbol

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Units | |
|-----------|--|---|--|----|
| V_{CC} | DC Supply Voltage | SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IH} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current, $V_{IH} < GND$ | | -50 | mA |
| I_{OK} | DC Output Diode Current, $V_{OUT} < GND$ | | +60 | mA |

新しいデータシート:



Figure 1. Logic Symbol

MAXIMUM RATINGS

| Symbol | Characteristics | Value | Units | |
|-----------|--|---|--|----|
| V_{CC} | DC Supply Voltage | SC-88, SC-74, SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{IH} | DC Input Voltage | SC-88 (NLV) SC-88, SC-74, TSOP-6, UDFN6 | -0.5 to +7.0 -0.5 to +6.5 | V |
| V_{OUT} | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +7.0 -0.5 to +7.0 | V |
| | DC Output Voltage | Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V) | -0.5 to $V_{CC} + 0.5$ -0.5 to +6.5 -0.5 to +6.5 | V |
| I_{IK} | DC Input Diode Current, $V_{IH} < GND$ | | -50 | mA |
| I_{OK} | DC Output Diode Current, $V_{OUT} < GND$ | | -50 | mA |

ORDERING INFORMATION

| Device | Package | Specific Device Code | Pin1 Orientation (See below) | Shipping ¹ |
|-----------------|---------|----------------------|------------------------------|-----------------------|
| NL27WZ17DFT2G | SC-88 | MX | G4 | 3000 / Tape & Reel |
| NLV27WZ17DFT2G* | SC-88 | MX | G4 | 3000 / Tape & Reel |

ORDERING INFORMATION

| Device | Package | Specific Device Code | Pin1 Orientation (see Below) | Shipping ¹ |
|-----------------|---------|----------------------|------------------------------|-----------------------|
| NL27WZ17DFT2G | SC-88 | MX | G4 | 3000 / Tape & Reel |
| NLV27WZ17DFT2G* | SC-88 | MX | G4 | 3000 / Tape & Reel |

NL37WZ14 ファミリの場合:

現在のデータシート:

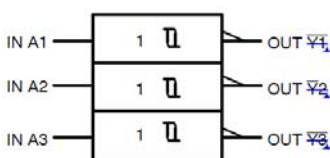


Figure 1. Logic Symbol

FUNCTION TABLE

| A Input | \overline{Y}_X Output |
|---------|-------------------------|
| L | H |
| H | L |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|------------|-----------------------------------|-----|----------|------|
| V_{CC} | Positive DC Supply Voltage | 0-5 | 5.5 | V |
| V_{IN} | DC Input Voltage | 0 | 5.5 | V |
| V_{OUT} | DC Output Voltage | 0 | V_{CC} | |
| | Active-Mode (High or Low State) | 0 | 5.5 | |
| | Tri-State Mode (Note 1) | 0 | 5.5 | |
| | Power-Down Mode ($V_{CC} = 0V$) | 0 | 5.5 | |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time | 0 | -99- | ns/V |
| | $V_{CC} = 1.65V$ to $1.95V$ | 0 | -99- | |
| | $V_{CC} = 2.3V$ to $2.7V$ | 0 | -99- | |
| | $V_{CC} = 3.0V$ to $3.6V$ | 0 | -99- | |
| | $V_{CC} = 4.5V$ to $5.5V$ | 0 | -99- | |

新しいデータシート:

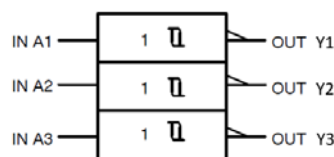


Figure 1. Logic Symbol

FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | H |
| H | L |

RECOMMENDED OPERATING CONDITIONS

| Symbol | Characteristics | Min | Max | Unit |
|------------|-----------------------------------|------|----------|------|
| V_{CC} | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| V_{IN} | DC Input Voltage | 0 | 5.5 | V |
| V_{OUT} | DC Output Voltage | 0 | V_{CC} | |
| | Active-Mode (High or Low State) | 0 | 5.5 | |
| | Tri-State Mode (Note 1) | 0 | 5.5 | |
| | Power-Down Mode ($V_{CC} = 0V$) | 0 | 5.5 | |
| T_A | Operating Temperature Range | -55 | +125 | °C |
| t_r, t_f | Input Rise and Fall Time | 0 | No Limit | ns/V |
| | $V_{CC} = 1.65V$ to $1.95V$ | 0 | No Limit | |
| | $V_{CC} = 2.3V$ to $2.7V$ | 0 | No Limit | |
| | $V_{CC} = 3.0V$ to $3.6V$ | 0 | No Limit | |
| | $V_{CC} = 4.5V$ to $5.5V$ | 0 | No Limit | |

NL37WZ16 ファミリの場合:

現在のデータシート:

NL37WZ16 は、1.65V~5.5V 電源で動作する入力を備えた高性能バッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns t_{PD} at $V_{CC} = 5V$ (Typ)

新しいデータシート:

NL37WZ16 は、1.65V~5.5V 電源で動作する入力を備えた高性能トリプルバッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5V$ (Typ)

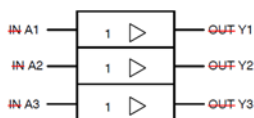
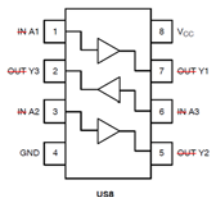




Figure 1. Logic Symbol



FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |

DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See below) | Shipping ¹ |
|--------------------------------|----------|---|-------------------------------|-----------------------|
| NL37WZ16USG | US8 |  | Q4 | 3000 / Tape & Reel |
| NLV37WZ16USG* (In Development) | US8 |  | Q4 | 3000 / Tape & Reel |

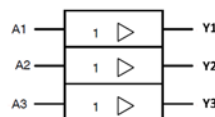
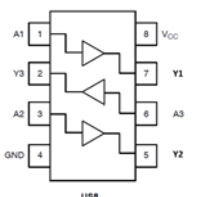


Figure 1. Logic Symbol



FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |

DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See below) | Shipping ¹ |
|--------------------------------|----------|----------------------|-------------------------------|-----------------------|
| NL37WZ16USG | US8 | LR | Q4 | 3000 / Tape & Reel |
| NLV37WZ16USG* (In Development) | US8 | LR | Q4 | 3000 / Tape & Reel |

NL37WZ17 ファミリの場合 :

現在のデータシート:

NL37WZ17 は、1.65 V~5.5 V 電源で動作する入力を備えた高性能バッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.7 ns t_{PD} at $V_{CC} = 5V$ (Typ)

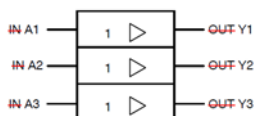
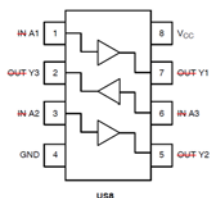


Figure 1. Logic Symbol



FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |

新しいデータシート

NL37WZ17 は、1.65 V~5.5 V 電源で動作する入力を備えた高性能トリプルバッファです。

Features

- Designed for 1.65V to 5.5V V_{CC} Operation
- 2.4 ns t_{PD} at $V_{CC} = 5V$ (Typ)

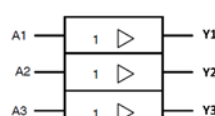
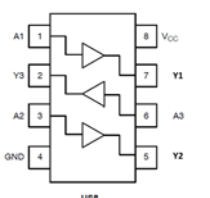


Figure 1. Logic Symbol



FUNCTION TABLE

| A Input | Y Output |
|---------|----------|
| L | L |
| H | H |



DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See Below) | Shipping ¹ |
|--------------|----------|----------------------|-------------------------------|-----------------------|
| NL37WZ17USG | US8 | LA | Q4 | 3000 / Tape & Reel |
| NLV37WZ17USG | US8 | LA | Q4 | 3000 / Tape & Reel |

DEVICE ORDERING INFORMATION

| Device | Packages | Specific Device Code | Pin 1 Orientation (See Below) | Shipping ¹ |
|--------------|----------|----------------------|-------------------------------|-----------------------|
| NL37WZ17USG | US8 | LX | Q4 | 3000 / Tape & Reel |
| NLV37WZ17USG | US8 | LX | Q4 | 3000 / Tape & Reel |

影響を受ける部品の一覧:

注: 標準の部品番号(既製品)のみが部品一覧に記載されます。本 PCN に影響を受けるカスタム 部品は、PCN メールのお客様の特定の PCN の付属文書、または PCN カスタマイズポータルに記載されています。

| | | |
|--------------------|--------------------|--------------------|
| MC74HC1G14DBVT1G | MC74HC1G14DFT1G | MC74HC1G14DFT2G |
| MC74HC1G14DTT1G | MC74HC1G14MX1TCG | MC74VHC1G14DBVT1G |
| MC74VHC1G14DFT1G | MC74VHC1G14MU2TCG | NL27WZ14MU1TCG |
| NL27WZ14MU3TCG | NL27WZ17DFT2G | NL27WZ17MU1TCG |
| NL27WZ17MU3TCG | NL37WZ14MU3TCG | NL37WZ14USG |
| NL37WZ16USG | NL37WZ17USG | MC74VHC1G14DFT2G |
| MC74VHC1G14P5T5G | MC74VHC1G14DTT1G | MC74VHC1GT14DBVT1G |
| MC74VHC1GT14MU1TCG | MC74VHC1GT14MU2TCG | MC74VHC1GT14MU3TCG |
| NL17SZ14DBVT1G | NL17SZ14DFT2G | NL17SZ14P5T5G |
| NL17SZ14XV5T2G | NL17SZ17DBVT1G | NL17SZ17DFT2G |
| NL17SZ17P5T5G | NL17SZ17XV5T2G | NL27WZ14DBVT1G |
| NL27WZ14DFT2G | NL27WZ14DTT1G | NL27WZ17DBVT1G |