## NLU1GT126

## Non-Inverting 3-State Buffer, TTL Level

## LSTTL-Compatible Inputs

The NLU1GT126 MiniGate ${ }^{T M}$ is an advanced CMOS high-speed non-inverting buffer in ultra-small footprint.

The NLU1GT126 requires the 3-state control input (OE) to be set Low to place the output in the high impedance state.

The device input is compatible with TTL-type input thresholds and the output has a full 5.0 V CMOS level output swing.

The NLU1GT126 input and output structures provide protection when voltages up to 7.0 V are applied, regardless of the supply voltage.

## Features

- High Speed: $\mathrm{t}_{\mathrm{PD}}=3.8 \mathrm{~ns}$ (Typ) @ $\mathrm{V}_{\mathrm{CC}}=5.0 \mathrm{~V}$
- Low Power Dissipation: $I_{C C}=2 \mu \mathrm{~A}(\mathrm{Max})$ at $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$
- TTL-Compatible Input: $\mathrm{V}_{\mathrm{IL}}=0.8 \mathrm{~V} ; \mathrm{V}_{\mathrm{IH}}=2.0 \mathrm{~V}$
- CMOS-Compatible Output:
$\mathrm{V}_{\mathrm{OH}}>0.8 \mathrm{~V}_{\mathrm{CC}} ; \mathrm{V}_{\mathrm{OL}}<0.1 \mathrm{~V}_{\mathrm{CC}} @ \mathrm{Load}$
- Power Down Protection Provided on inputs
- Balanced Propagation Delays
- Ultra-Small Packages
- These are $\mathrm{Pb}-$ Free Devices


Figure 1. Pinout (Top View)


Figure 2. Logic Symbol
PIN ASSIGNMENT
FUNCTION TABLE

| Input |  | Output |
| :---: | :---: | :---: |
| A | OE | Y |
| L | H | L |
| H | H | H |
| X | L | Z |


| 1 | OE |
| :---: | :---: |
| 2 | IN A |
| 3 | GND |
| 4 | OUTY |
| 5 | NC |
| 6 | $\mathrm{~V}_{\mathrm{CC}}$ |



ORDERING INFORMATION
See detailed ordering and shipping information on page 4 of this data sheet

NLU1GT126

MAXIMUM RATINGS

| Symbol | Parameter | Value | Unit |
| :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | DC Supply Voltage | -0.5 to +7.0 | V |
| $\mathrm{V}_{\text {IN }}$ | DC Input Voltage | -0.5 to +7.0 | V |
| $\mathrm{V}_{\text {OUT }}$ | DC Output Voltage | -0.5 to +7.0 | V |
| $\mathrm{I}_{\mathrm{IK}}$ | DC Input Diode Current $\mathrm{V}_{\mathrm{IN}}<$ GND | -20 | mA |
| IOK | DC Output Diode Current $\quad \mathrm{V}_{\text {OUT }}<$ GND | $\pm 20$ | mA |
| $\mathrm{I}_{0}$ | DC Output Source/Sink Current | $\pm 12.5$ | mA |
| $I_{\text {CC }}$ | DC Supply Current Per Supply Pin | $\pm 25$ | mA |
| $\mathrm{I}_{\text {GND }}$ | DC Ground Current per Ground Pin | $\pm 25$ | mA |
| $\mathrm{T}_{\text {STG }}$ | Storage Temperature Range | -65 to +150 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\mathrm{L}}$ | Lead Temperature, 1 mm from Case for 10 Seconds | 260 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{J}$ | Junction Temperature Under Bias | 150 | ${ }^{\circ} \mathrm{C}$ |
| MSL | Moisture Sensitivity | Level 1 |  |
| $\mathrm{F}_{\mathrm{R}}$ | Flammability Rating Oxygen Index: 28 to 34 | UL 94 V -0 @ 0.125 in |  |
| I LATCHUP | Latchup Performance Above $\mathrm{V}_{\mathrm{CC}}$ and Below GND at $125^{\circ} \mathrm{C}$ (Note 2) | $\pm 500$ | mA |

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. Measured with minimum pad spacing on an FR4 board, using 10 mm -by-1 inch, 2 ounce copper trace no air flow.
2. Tested to EIA / JESD78.

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Max | Unit |
| :---: | :--- | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | Positive DC Supply Voltage | 1.65 | 5.5 | V |
| $\mathrm{~V}_{\mathrm{IN}}$ | Digital Input Voltage | 0 | 5.5 | V |
| $\mathrm{~V}_{\mathrm{OUT}}$ | Output Voltage | 0 | 5.5 | V |
| $\mathrm{~T}_{\mathrm{A}}$ | Operating Free-Air Temperature | -55 | +125 | ${ }^{\circ} \mathrm{C}$ |
| $\Delta \mathrm{t} / \Delta \mathrm{V}$ | Input Transition Rise or Fall Rate |  | 0 | 100 |
|  |  | $\mathrm{~V}_{\mathrm{CC}}=3.3 \mathrm{~V} \pm 0.3 \mathrm{~V}$ |  |  |
| $\mathrm{~V}_{\mathrm{CC}}=5.0 \mathrm{~V} \pm 0.5 \mathrm{~V}$ | $\mathrm{~ns} / \mathrm{V}$ |  |  |  |

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

## NLU1GT126

DC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Conditions | $\mathrm{V}_{\mathrm{cc}}(\mathrm{V})$ | $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ |  |  | $\mathrm{T}_{\mathrm{A}}=+85^{\circ} \mathrm{C}$ |  | $\begin{aligned} & \mathrm{T}_{\mathrm{A}}=-55^{\circ} \mathrm{C} \\ & \text { to }+125^{\circ} \mathrm{C} \end{aligned}$ |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Min | Typ | Max | Min | Max | Min | Max |  |
| $\mathrm{V}_{\mathrm{IH}}$ | Low-Level Input Voltage |  | $\begin{gathered} 3.0 \\ 4.5 \text { to } 5.5 \end{gathered}$ | $\begin{aligned} & 1.4 \\ & 2.0 \end{aligned}$ |  |  | $\begin{aligned} & \hline 1.4 \\ & 2.0 \end{aligned}$ |  | $\begin{aligned} & \hline 1.4 \\ & 2.0 \end{aligned}$ |  | V |
| $\mathrm{V}_{\mathrm{IL}}$ | Low-Level Input Voltage |  | $\begin{gathered} 3.0 \\ 4.5 \text { to } 5.5 \end{gathered}$ |  |  | $\begin{gathered} \hline 0.53 \\ 0.8 \end{gathered}$ |  | $\begin{gathered} 0.53 \\ 0.8 \end{gathered}$ |  | $\begin{gathered} 0.53 \\ 0.8 \end{gathered}$ | V |
| $\mathrm{V}_{\mathrm{OH}}$ | High-Level Output Voltage | $\begin{aligned} & \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} \\ & \mathrm{IOH}^{2}-50 \mu \mathrm{~A} \end{aligned}$ | $\begin{aligned} & 3.0 \\ & 4.5 \end{aligned}$ | $\begin{aligned} & \hline 2.9 \\ & 4.4 \end{aligned}$ | $\begin{aligned} & \hline 3.0 \\ & 4.5 \end{aligned}$ |  | $\begin{aligned} & \hline 2.9 \\ & 4.4 \end{aligned}$ |  | $\begin{aligned} & \hline 2.9 \\ & 4.4 \end{aligned}$ |  | V |
|  |  | $\begin{aligned} & \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} \\ & \mathrm{I}_{\mathrm{OH}}=-4 \mathrm{~mA} \\ & \mathrm{I}_{\mathrm{OH}}=-8 \mathrm{~mA} \end{aligned}$ | $\begin{aligned} & 3.0 \\ & 4.5 \end{aligned}$ | $\begin{aligned} & 2.58 \\ & 3.94 \end{aligned}$ |  |  | $\begin{aligned} & 2.48 \\ & 3.80 \end{aligned}$ |  | $\begin{aligned} & 2.34 \\ & 3.66 \end{aligned}$ |  |  |
| V ${ }_{\text {OL }}$ | Low-Level Output Voltage | $\begin{aligned} & \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} \\ & \mathrm{I}_{\mathrm{OL}}=50 \mu \mathrm{~A} \end{aligned}$ | $\begin{aligned} & \hline 3.0 \\ & 4.5 \end{aligned}$ |  | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{aligned} & \hline 0.1 \\ & 0.1 \end{aligned}$ |  | $\begin{aligned} & \hline 0.1 \\ & 0.1 \end{aligned}$ |  | $\begin{aligned} & \hline 0.1 \\ & 0.1 \end{aligned}$ | V |
|  |  | $\begin{aligned} & \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} \\ & \mathrm{l}_{\mathrm{OL}}=4 \mathrm{~mA} \\ & \mathrm{l}_{\mathrm{OL}}=8 \mathrm{~mA} \end{aligned}$ | $\begin{aligned} & 3.0 \\ & 4.5 \end{aligned}$ |  |  | $\begin{aligned} & 0.36 \\ & 0.36 \end{aligned}$ |  | $\begin{aligned} & 0.44 \\ & 0.44 \end{aligned}$ |  | $\begin{aligned} & 0.52 \\ & 0.52 \end{aligned}$ |  |
| $\mathrm{I}_{\text {IN }}$ | Input Leakage Current | $0 \leq \mathrm{V}_{\mathrm{IN}} \leq 5.5 \mathrm{~V}$ | 0 to 5.5 |  |  | $\pm 0.1$ |  | $\pm 1.0$ |  | $\pm 1.0$ | $\mu \mathrm{A}$ |
| Icc | Quiescent Supply Current | $0 \leq \mathrm{V}_{\text {IN }} \leq \mathrm{V}_{\text {CC }}$ | 5.5 |  |  | 1.0 |  | 20 |  | 40 | $\mu \mathrm{A}$ |
| $\mathrm{I}_{\text {CCT }}$ | Quiescent Supply Current | $\mathrm{V}_{\text {IN }}=3.4 \mathrm{~V}$ <br> Other Input: $\mathrm{V}_{\mathrm{CC}}$ or GND | 5.5 |  |  | 1.35 |  | 1.50 |  | 1.65 | mA |
| IOPD | Output Leakage Current | $\mathrm{V}_{\text {OUT }}=5.5 \mathrm{~V}$ | 0 |  |  | 0.5 |  | 5.0 |  | 10 | $\mu \mathrm{A}$ |
| $\mathrm{I}_{\text {OZ }}$ | 3-State Leakage Current | $\begin{aligned} & \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{IH}} \text { or } \mathrm{V}_{\mathrm{IL}} \\ & \mathrm{~V}_{\mathrm{OUT}}=\mathrm{V}_{\mathrm{CC}} \text { or } \\ & \mathrm{GND} \end{aligned}$ | 0 |  |  | $\pm 0.25$ |  | $\pm 2.5$ |  | $\pm 2.5$ | $\mu \mathrm{A}$ |

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.
AC ELECTRICAL CHARACTERISTICS (Input $\mathrm{t}_{\mathrm{r}}=\mathrm{t}_{\mathrm{f}}=3.0 \mathrm{~ns}$ )

| Symbol | Parameter | $\mathrm{V}_{\mathrm{CC}}$ <br> (V) | Test Condition | $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ |  |  | $\mathrm{T}_{\mathrm{A}}=+85^{\circ} \mathrm{C}$ |  | $\begin{aligned} & \mathrm{T}_{\mathrm{A}}=-55^{\circ} \mathrm{C} \\ & \text { to }+125^{\circ} \mathrm{C} \end{aligned}$ |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Min | Typ | Max | Min | Max | Min | Max |  |
| $t_{\text {PLH }}$, <br> $\mathrm{t}_{\mathrm{PHL}}$ | Propagation Delay, A to $\mathbf{Y}$ (Figures 3 and 5) | 3.0 to 3.6 | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=15 \mathrm{pF} \\ & \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF} \end{aligned}$ |  | $\begin{aligned} & \hline 5.6 \\ & 8.1 \end{aligned}$ | $\begin{gathered} 8.0 \\ 11.5 \end{gathered}$ | $\begin{aligned} & 1.0 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 9.5 \\ & 13 \end{aligned}$ |  | $\begin{aligned} & 12 \\ & 16 \end{aligned}$ | ns |
|  |  | 4.5 to 5.5 | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=15 \mathrm{pF} \\ & \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF} \end{aligned}$ |  | $\begin{aligned} & 3.8 \\ & 5.3 \end{aligned}$ | $\begin{aligned} & 5.5 \\ & 7.5 \end{aligned}$ | $\begin{aligned} & 1.0 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & \hline 6.5 \\ & 8.5 \end{aligned}$ |  | $\begin{gathered} 8.5 \\ 10.5 \end{gathered}$ |  |
| $\begin{aligned} & \hline \mathrm{t}_{\mathrm{PZL}}, \\ & \mathrm{t}_{\mathrm{PZH}} \end{aligned}$ | Output Enable Time, OE to Y (Figures 4 and 6) | 3.0 to 3.6 | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=15 \mathrm{pF} \\ & \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF} \end{aligned}$ |  | $\begin{aligned} & 5.4 \\ & 7.9 \end{aligned}$ | $\begin{gathered} 8.0 \\ 11.5 \end{gathered}$ | $\begin{aligned} & 1.0 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 9.5 \\ & 13 \end{aligned}$ |  | $\begin{gathered} 11.5 \\ 15 \end{gathered}$ | ns |
|  |  | 4.5 to 5.5 | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=15 \mathrm{pF} \\ & \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF} \end{aligned}$ |  | $\begin{aligned} & 3.6 \\ & 5.1 \end{aligned}$ | $\begin{aligned} & 5.1 \\ & 7.1 \end{aligned}$ | $\begin{aligned} & 1.0 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 6.0 \\ & 8.0 \end{aligned}$ |  | $\begin{aligned} & 7.5 \\ & 9.5 \end{aligned}$ |  |
| $\begin{aligned} & \mathrm{t}_{\mathrm{PLZ}}, \\ & \mathrm{t}_{\mathrm{PHZ}} \end{aligned}$ | Output Disable Time, OE to Y (Figures 4 and 6) | 3.0 to 3.6 | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=15 \mathrm{pF} \\ & \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF} \end{aligned}$ |  | $\begin{aligned} & 6.5 \\ & 8.0 \end{aligned}$ | $\begin{gathered} \hline 9.7 \\ 13.2 \end{gathered}$ | $\begin{aligned} & 1.0 \\ & 1.0 \end{aligned}$ | $\begin{gathered} 11.5 \\ 15 \end{gathered}$ |  | $\begin{aligned} & 14.5 \\ & 18.5 \end{aligned}$ | ns |
|  |  | 4.5 to 5.5 | $\begin{aligned} & \mathrm{C}_{\mathrm{L}}=15 \mathrm{pF} \\ & \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF} \end{aligned}$ |  | $\begin{aligned} & 4.8 \\ & 7.0 \end{aligned}$ | $\begin{aligned} & \hline 6.8 \\ & 8.8 \end{aligned}$ | $\begin{aligned} & 1.0 \\ & 1.0 \end{aligned}$ | $\begin{aligned} & 8.0 \\ & 10 \end{aligned}$ |  | $\begin{aligned} & 10 \\ & 12 \end{aligned}$ |  |
| $\mathrm{C}_{\text {IN }}$ | Input Capacitance |  |  |  | 4 | 10 |  | 10 |  | 10 | pF |
| Cout | 3-State Output Capacitance (Output in High Impedance State) |  |  |  | 6 |  |  |  |  |  | pF |
| CPD | Power Dissipation Capacitance (Note 3) | 5.0 |  |  | 14 |  |  |  |  |  | pF |

3. $\mathrm{C}_{P D}$ is defined as the value of the internal equivalent capacitance which is calculated from the dynamic operating current consumption without load. Average operating current can be obtained by the equation $I_{C C(O P R)}=C_{P D} \bullet V_{C C} \bullet f_{i n}+I_{C C} . C_{P D}$ is used to determine the no-load dynamic power consumption: $\mathrm{P}_{\mathrm{D}}=\mathrm{C}_{\mathrm{PD}} \bullet \mathrm{V}_{\mathrm{CC}}{ }^{2} \bullet \mathrm{f}_{\mathrm{in}}+\mathrm{I}_{\mathrm{CC}} \bullet \mathrm{V}_{\mathrm{CC}}$.

## NLU1GT126

## SWITCHING WAVEFORMS



Figure 3. Switching Waveforms


Figure 5. Test Circuit

Figure 6. Test Circuit



Figure 7. Input Equivalent Circuit

ORDERING INFORMATION

| Device | Package | Shipping $^{\dagger}$ |
| :--- | :---: | :---: |
| NLU1GT126MUTCG | UDFN6, $1.2 \times 1.0,0.4 \mathrm{P}$ <br> $($ Pb-Free $)$ | $3000 /$ Tape \& Reel |
| NLU1GT126AMUTCG | UDFN6, $1.45 \times 1.0,0.5 \mathrm{P}$ <br> $($ Pb-Free $)$ | $3000 /$ Tape \& Reel |
| NLU1GT126CMUTCG | UDFN6, $1.0 \times 1.0,0.35 \mathrm{P}$ <br> $($ Pb-Free $)$ | $3000 /$ Tape \& Reel |

$\dagger$ For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.


UDFN6, 1.2x1.0, 0.4P
CASE 517AA-01
ISSUE D
DATE 03 SEP 2010

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.25 AND 0.30 mm FROM TERMINAL
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.

|  | MILLIMETERS |  |
| :---: | :---: | :---: |
| DIM | MIN | MAX |
| A | 0.45 | 0.55 |
| A1 | 0.00 | 0.05 |
| A3 | 0.127 |  |
| REF |  |  |
| b | 0.15 |  |
| D | 1.20 |  |
| BSC |  |  |
| E | 1.00 |  |
| BSC |  |  |
| e | 0.40 |  |
| BSC |  |  |
| L | 0.30 | 0.40 |
| L1 | 0.00 | 0.15 |
| L2 | 0.40 | 0.50 |

Side View (Optional)

GENERIC
MARKING DIAGRAM*


X = Specific Device Code
M = Date Code
*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, " G " or microdot " $\mathrm{\bullet}$ ", may or may not be present.

## MOUNTING FOOTPRINT*


*For additional information on our Pb -Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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| DESCRIPTION: | 6 PIN UDFN, 1.2X1.0, 0.4P | PAGE 1 OF 1 |

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UDFN6, 1.45x1.0, 0.5P CASE 517AQ

ISSUE O
DATE 15 MAY 2008


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
CONTROLLING DIMENSION: MILLIMETERS
2. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 mm FROM THE TERMINAL TIP.


DETAIL B OPTIONAL CONSTRUCTIONS

## MOUNTING FOOTPRINT



DIMENSIONS: MILLIMETERS
*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

## GENERIC

MARKING DIAGRAM*


X = Specific Device Code
M = Date Code
*This information is generic. Please refer to device data sheet for actual part marking. $\mathrm{Pb}-$ Free indicator, "G" or microdot " $\quad$ ", may or may not be present.

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| DESCRIPTION: | UDFN6, 1.45x1.0, 0.5P | PAGE 1 OF 1 |

[^0]UDFN6, 1x1, 0.35P
CASE 517BX
ISSUE O
DATE 18 MAY 2011

*For additional information on our $\mathrm{Pb}-$ Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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