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## FAIRCHILD

## FSLV16211－24－Bit Bus Switch

## Features

－ $5 \Omega$ Switch Connection between Two Ports
－Minimal Propagation Delay through the Switch
－Low lcc
－Zero Bounce in Flow－Through Mode
－Packaged in Thin－Shrink Small Outline Package （TSSOP）

## Description

The FSLV16211 is a 24－bit，high－speed，low－voltage bus switch．The low on resistance of the switch allows inputs to be connected to outputs without adding propagation delay or generating additional ground bounce noise．

This design can be used as a 12－or 24－bit bus switch． When／OE1 is LOW，port 1A is connected to Port 1B． When／OE2 is LOW，port 2A is connected to Port 2B．

## Ordering Information

| Part Number | Operating <br> Temperature <br> Range | Package | Packing Method |
| :---: | :---: | :---: | :---: |
| FSLV16211MTDX | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ | 56－Lead，Thin Shrink Small Outline Package <br> （TSSOP），JEDEC M0－153，6．1mm Wide | Tape and Reel |



Figure 1．Logic Diagram

## Connection Diagram



Figure 2. Pin Assignments for TSSOP (Top Through View)

Pin Description

| Pin Name | Description |
| :---: | :---: |
| $\overline{\mathrm{OE}}_{1}, \overline{\mathrm{OE}}_{2}$ | Bus Switch Enables |
| $1 \mathrm{~A}, 2 \mathrm{~A}$ | Bus A |
| $1 \mathrm{~B}, 2 \mathrm{~B}$ | Bus B |
| NC | No Connect |

## Truth Table

| Inputs |  | Inputs/Outputs |  |
| :---: | :---: | :---: | :---: |
| $\overline{\mathrm{OE}}_{1}$ | $\overline{\mathrm{OE}}_{2}$ | $1 \mathrm{~A}, 1 \mathrm{~B}$ | $2 \mathrm{~A}, 2 \mathrm{~B}$ |
| Low | Low | $1 \mathrm{~A}=1 \mathrm{~B}$ | $2 \mathrm{~A}=2 \mathrm{~B}$ |
| Low | High | $1 \mathrm{~A}=1 \mathrm{~B}$ | Z |
| High | Low | Z | $2 \mathrm{~A}=2 \mathrm{~B}$ |
| High | High | Z | Z |

## Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

| Symbol | Parameter | Min. | Max. | Unit |
| :---: | :--- | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | Supply Voltage | -0.5 | 4.6 | V |
| $\mathrm{~V}_{\mathrm{S}}$ | DC Switch Voltage ${ }^{(1)}$ | -0.5 | 4.6 | V |
| $\mathrm{~V}_{\text {IN }}$ | DC Input Voltage | -0.5 | 4.6 | V |
| $\mathrm{I}_{\text {IK }}$ | DC Input Diode Current |  | -50 | mA |
| $\mathrm{I}_{\text {OUT }}$ | DC Output Sink Current |  | 128 | mA |
| $\mathrm{I}_{\mathrm{CC}} / \mathrm{I}_{\mathrm{GNG}}$ | DC $\mathrm{V}_{\mathrm{CC}} /$ GND Current |  | $\pm 100$ | mA |
| $\mathrm{~T}_{\text {STG }}$ | Storage Temperature Range | -65 | 150 | ${ }^{\circ} \mathrm{C}$ |

Note:

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

## Recommended Operating Conditions

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to Absolute Maximum Ratings. ${ }^{(2)}$

| Symbol | Parameter |  | Min. | Max. | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\text {cc }}$ | Power Supply Operating Voltage |  | 2.3 | 3.6 | V |
| $\mathrm{V}_{\text {IN }}$ | Input Voltage |  | 0 | 3.6 | V |
| Vout | Output Voltage |  | 0 | 3.6 | V |
| $\mathrm{t}_{\mathrm{r}}, \mathrm{t}_{\mathrm{f}}$ | Input Rise and Fall Time | Switch Control Input | 0 | 4.0 | ns/V |
|  |  | Switch I/O | 0 | DC | ns/V |
| $\mathrm{T}_{\mathrm{A}}$ | Free Air Operating Temperature |  | -40 | 85 | ${ }^{\circ} \mathrm{C}$ |

Note:
2. Unused control inputs must be held HIGH or LOW. They may not float.

## DC Electrical Characteristics

Not all conditions may appear on all switch types.

| Symbol | Parameter | Conditions | $\mathrm{V}_{\mathrm{cc}}$ <br> (V) | $\mathrm{T}_{\mathrm{A}}=-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$ |  |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Min. | Typ. | Max. |  |
| $\mathrm{V}_{\text {IK }}$ | Clamp Diode Voltage | $\mathrm{I}_{\mathrm{N}}=-18 \mathrm{~mA}$ | 3.0 |  |  | -1.2 | V |
| $\mathrm{V}_{\mathrm{IH}}$ | HIGH Level Control Input Voltage |  | 2.3-2.7 | 1.7 |  |  | V |
|  |  |  | 2.7-3.6 | 2.0 |  |  |  |
| VIL | LOW Level Control Input Voltage |  | 2.3-2.7 |  |  | 0.7 | V |
|  |  |  | 2.7-3.6 |  |  | 0.8 |  |
| IL | Input Leakage Current | $\begin{aligned} & \text { Force } V_{1}=3.6 \mathrm{~V}, \\ & \text { lout }=0.0 \mathrm{~A} \end{aligned}$ | 2.3 |  |  | 10 | $\mu \mathrm{A}$ |
|  |  | Force $\mathrm{V}_{1}=3.6 \mathrm{~V}$ | 0.0 |  |  | 10 |  |
|  |  | $0 \leq \mathrm{V}_{\text {IN }} \leq 3.6 \mathrm{~V}$ | 3.6 |  |  | 1 |  |
| Icc | Quiescent Supply Current | $\begin{aligned} & \mathrm{V}_{\mathrm{IN}}=\mathrm{V}_{\mathrm{CC}} \text { or } \mathrm{GND}, \\ & \mathrm{l}_{\text {OUT }}=0 \mathrm{~A} \end{aligned}$ | 3.6 |  |  | 10 | $\mu \mathrm{A}$ |
| $\Delta \mathrm{lcc}$ | Increase in Icc per Input | One Input at 3V Other Inputs at $\mathrm{V}_{\mathrm{Cc}}$ or GND | 3.6 |  |  | 300 | $\mu \mathrm{A}$ |
| Ioz | Off-State Leakage | $0.0 \leq \mathrm{A}, \mathrm{B} \leq 3.6 \mathrm{~V}$ | 3.6 | -1 |  | 1 | $\mu \mathrm{A}$ |
| Ron | Switch On Resistance | $\mathrm{l}_{\mathrm{N}}=64 \mathrm{~mA}, \mathrm{~V}_{\mathrm{I}}=0.0 \mathrm{~V}$ | 3.0 |  | 5 | 7 | $\Omega$ |
|  |  | $\mathrm{I}_{\mathrm{I}}=30 \mathrm{~mA}, \mathrm{~V}_{\mathrm{I}}=0.0 \mathrm{~V}$ | 3.0 |  | 5 | 7 |  |
|  |  | $\mathrm{l}_{\mathrm{IN}}=15 \mathrm{~mA}, \mathrm{~V}_{\mathrm{I}}=2.4 \mathrm{~V}$ | 3.0 |  | 10 | 15 |  |
|  |  | $\mathrm{l}_{\mathrm{IN}}=15 \mathrm{~mA}, \mathrm{~V}_{\mathrm{I}}=3.0 \mathrm{~V}$ | 2.3 |  |  | 20 |  |
|  |  | $\mathrm{l}_{\mathrm{IN}}=64 \mathrm{~mA}, \mathrm{~V}_{\mathrm{I}}=0.0 \mathrm{~V}$ | 2.3 |  | 5 | 8 |  |
|  |  | $\mathrm{I}_{\mathrm{IN}}=30 \mathrm{~mA}, \mathrm{~V}_{1}=0.0 \mathrm{~V}$ | 2.3 |  | 5 | 8 |  |
|  |  | $\mathrm{l}_{1 \mathrm{~N}}=15 \mathrm{~mA}, \mathrm{~V}_{\mathrm{I}}=1.7 \mathrm{~V}$ | 2.3 |  | 10 | 15 |  |
|  |  | $\mathrm{l}_{\mathrm{IN}}=15 \mathrm{~mA}, \mathrm{~V}_{\mathrm{I}}=2.0 \mathrm{~V}$ | 2.3 |  |  | 20 |  |

## AC Electrical Characteristics

| Symbol | Parameter | $\begin{aligned} & \mathrm{T}_{\mathrm{A}}=-40^{\circ} \mathrm{C} \text { to }+85^{\circ} \mathrm{C} \\ & \mathrm{C}_{\mathrm{L}}=30 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega \end{aligned}$ |  | $\begin{aligned} & \mathrm{T}_{\mathrm{A}}=40^{\circ} \mathrm{C} \text { to }+85^{\circ} \mathrm{C} \\ & \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF}, \mathrm{R}_{\mathrm{L}}=500 \Omega \end{aligned}$ |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  |  | $\mathrm{V}_{\mathrm{cc}}=2.5 \mathrm{~V} \pm 0.20 \mathrm{~V}$ |  | $\mathrm{V}_{\mathrm{cc}}=3.3 \mathrm{~V} \pm 0.30 \mathrm{~V}$ |  |  |
|  |  | Min. | Max. | Min. | Max. |  |
| $\mathrm{t}_{\text {PHL }}, \mathrm{t}_{\text {PLH }}$ | Propagation Delay ${ }^{(3)}$ |  | 0.15 |  | 0.25 | ns |
| $\mathrm{t}_{\text {PHZ }}, \mathrm{t}_{\text {PLZ }}$ | Enable Time | 0.5 | 4.7 | 1.0 | 7.0 | ns |
| $\mathrm{t}_{\text {PzH }}, \mathrm{t}_{\text {PZL }}$ | Disable Time | 0.5 | 5.1 | 1.0 | 5.5 | ns |

## Note:

3. This parameter is guaranteed by design, but is not production tested. The bus switch contributes no propagation delay other than the RC delay of the typical on resistance of the switch and the load capacitance when driven by an ideal voltage source (zero output impedance).

## Capacitance

$T_{A}=+25^{\circ} \mathrm{C}, \mathrm{f}=1 \mathrm{MHz}$, unless otherwise noted. Capacitance is characterized, but not production tested.

| Symbol | Parameter | Conditions | Min. | Typ. | Max. | Unit |
| :---: | :--- | :--- | :--- | :---: | :---: | :---: |
| $\mathrm{C}_{\mathbb{N}}$ | Control Pin Input Capacitance | $\mathrm{V}_{\mathrm{CC}}-3.3 \mathrm{~V}$ |  | 4.5 |  | pF |
| $\mathrm{C}_{\\| \mathrm{O}}$ | Input/Output Capacitance | $\mathrm{V}_{\mathrm{CC}}, / \mathrm{OE}=3.3 \mathrm{~V}$ |  | 18 |  | pF |

## AC Loading Waveforms



Note: $\mathrm{C}_{\mathrm{L}}$ Includes load and stray capacitance
Note: Input PRR $=1.0 \mathrm{MHz}, \mathrm{t}_{\mathrm{w}}=500 \mathrm{~ns}$

Figure 3. AC Test Circuit


Figure 4. AC Waveforms

| $\mathrm{V}_{\mathrm{cc}}$ |  |  |
| :---: | :---: | :---: |
| Symbol | $\mathbf{3 . 3 V} \pm \mathbf{0 . 3 V}$ | $\mathbf{2 . 5 V} \pm \mathbf{0 . 2 V}$ |
| $\mathrm{V}_{\mathrm{MI}}$ | 1.5 V | $\mathrm{~V}_{\mathrm{cc}} / 2$ |
| $\mathrm{~V}_{\mathrm{MO}}$ | 1.5 V | $\mathrm{~V}_{\mathrm{cc}} / 2$ |
| $\mathrm{~V}_{\mathrm{MVO}}$ | 0.3 V | 0.15 V |
| $\mathrm{~V}_{\mathrm{IN}}$ | 6.0 V | $2 \times \mathrm{V}_{\mathrm{CC}}$ |
| $\mathrm{V}_{\mathrm{CCV}}$ | 3.0 V | $\mathrm{~V}_{\mathrm{CC}}$ |
| $\mathrm{t}_{\mathrm{C}} \mathrm{lf}$ | 2 ns | 2.5 ns |

## Physical Dimensions



Figure 5. 56-Lead Thin-Shrink Small Outline Package (TSSOP), JEDEC MO153, 6.1mm Wide

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