## FST3125

## 4-Bit Bus Switch

The ON Semiconductor FST3125 is a quad, high performance switch. The device is CMOS TTL compatible when operating between 4 and 5.5 Volts. The device exhibits extremely low $\mathrm{R}_{\mathrm{ON}}$ and adds nearly zero propagation delay. The device adds no noise or ground bounce to the system.

The device consists of four independent 1-bit switches with separate Output/Enable ( $\overline{\mathrm{OE}})$ pins. Port A is connected to Port B when $\overline{\mathrm{OE}}$ is low. If $\overline{\mathrm{OE}}$ is high, the switch is high Z .

## Features

- $\mathrm{R}_{\mathrm{ON}}<4 \Omega$ Typical
- Less Than 0.25 ns-Max Delay Through Switch
- Nearly Zero Standby Current
- No Circuit Bounce
- Control Inputs are TTL/CMOS Compatible
- Pin-For-Pin Compatible With QS3125, FST3125, CBT3125
- All Popular Packages: TSSOP-14, SOIC-14
- These are $\mathrm{Pb}-$ Free Devices


Figure 1. Pin Assignment for SOIC and TSSOP
*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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## http://onsemi.com

MARKING DIAGRAMS

14

| ABABA |
| :---: |
| FST |
| 3125 |
| ALYW• |
| $\bigcirc$ |
| THETH |

A = Assembly Location
WL, L = Wafer Lot
Y = Year
WW, W = Work Week
G or • = Pb-Free Package
(Note: Microdot may be in either location)

## PIN NAMES

| Pin | Description |
| :--- | :---: |
| $\overline{\mathrm{OE}}_{1}, \overline{\mathrm{OE}}_{2}, \overline{\mathrm{OE}}_{3}, \overline{\mathrm{OE}}_{4}$ | Bus Switch Enables |
| $1 \mathrm{~A}, 2 \mathrm{~A}, 3 \mathrm{~A}, 4 \mathrm{~A}$ | Bus A |
| $1 \mathrm{~B}, 2 \mathrm{~B}, 3 \mathrm{~B}, 4 \mathrm{~B}$ | Bus B |
| NC | Not Connected |

ORDERING INFORMATION
See detailed ordering and shipping information in the package dimensions section on page 2 of this data sheet.


Figure 2. Logic Diagram

## TRUTH TABLE

| Inputs | Outputs |
| :---: | :---: |
| $\overline{\mathrm{OE}}$ | $\mathrm{A}, \mathrm{B}$ |
| L | $\mathrm{A}=\mathrm{B}$ |
| H | Z |

ORDERING INFORMATION

| Device Order Number | Package | Shipping $^{\dagger}$ |
| :--- | :---: | :---: |
| FST3125DR2G | SOIC-14 <br> (Pb-Free) | 2500 Units / Tape \& Reel |
| FST3125DTR2G | TSSOP-14 <br> (Pb-Free) | 2500 Units / 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.

MAXIMUM RATINGS

| Symbol | Parameter | Value | Unit |
| :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | DC Supply Voltage | -0.5 to +7.0 | V |
| $V_{1}$ | DC Input Voltage | -0.5 to +7.0 | V |
| $\mathrm{V}_{0}$ | DC Output Voltage | -0.5 to +7.0 | V |
| $\mathrm{I}_{\mathrm{IK}}$ | DC Input Diode Current $\quad \mathrm{V}_{1}<\mathrm{GND}^{\text {a }}$ | -50 | mA |
| lok | DC Output Diode Current $\quad \mathrm{V}_{\mathrm{O}}<\mathrm{GND}$ | -50 | mA |
| Io | DC Output Sink Current | 128 | mA |
| ICC | DC Supply Current per Supply Pin | $\pm 100$ | mA |
| $\mathrm{I}_{\text {GND }}$ | DC Ground Current per Ground Pin | $\pm 100$ | mA |
| TSTG | Storage Temperature Range | -65 to +150 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\mathrm{L}}$ | Lead Temperature, 1 mm from Case for 10 Seconds | 260 | ${ }^{\circ} \mathrm{C}$ |
| $\mathrm{T}_{\mathrm{J}}$ | Junction Temperature Under Bias | + 150 | ${ }^{\circ} \mathrm{C}$ |
| $\theta_{\mathrm{JA}}$ | Thermal Resistance (Note 1) $\begin{aligned} & \text { SOIC } \\ & \text { TSSOP }\end{aligned}$ | $\begin{aligned} & \hline 125 \\ & 170 \end{aligned}$ | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| MSL | Moisture Sensitivity | Level 1 |  |
| $\mathrm{F}_{\mathrm{R}}$ | Flammability Rating Oxygen Index: 28 to 34 | UL 94 V-0 @ 0.125 in |  |
| $\mathrm{V}_{\text {ESD }}$ | ESD Withstand Voltage Human Body Model (Note 2) <br> Machine Model (Note 3) <br> Charged Device Model | $\begin{aligned} & >4000 \\ & >400 \\ & >2000 \end{aligned}$ | V |
| ILatchup | Latchup Performance Above $\mathrm{V}_{\mathrm{CC}}$ and Below GND at $85^{\circ} \mathrm{C}$ (Note 4) | $\pm 100$ | mA |

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. Measured with minimum pad spacing on an FR4 board, using 10 mm -by-1 inch, 2-ounce copper trace with no air flow.
2. Tested to EIA/JESD22-A114-A.
3. Tested to EIA/JESD22-A115-A.
4. Tested to EIA/JESD78.

## RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter |  | Min | Max | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{V}_{\mathrm{CC}}$ | Supply Voltage | Operating, Data Retention Only | 4.0 | 5.5 | V |
| $V_{1}$ | Input Voltage | (Note) | 0 | 5.5 | V |
| $\mathrm{V}_{\mathrm{O}}$ | Output Voltage | (HIGH or LOW State) | 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 | Switch Control Input Switch I/O | $\begin{aligned} & 0 \\ & 0 \end{aligned}$ | $\begin{gathered} 5 \\ \text { DC } \end{gathered}$ | $\mathrm{ns} / \mathrm{V}$ |

5. Unused control inputs may not be left open. All control inputs must be tied to a high- or low-logic input voltage level.

FST3125

DC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Conditions | $\begin{aligned} & \mathrm{V}_{\mathrm{Cc}} \\ & (\mathrm{~V}) \end{aligned}$ | $\mathrm{T}_{\mathrm{A}}=-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |  |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Min | Typ* | Max |  |
| $\mathrm{V}_{\mathrm{IK}}$ | Clamp Diode Resistance | $\mathrm{I}_{\mathrm{IN}}=-18 \mathrm{~mA}$ | 4.5 |  |  | -1.2 | V |
| $\mathrm{V}_{\mathrm{IH}}$ | High-Level Input Voltage |  | 4.0 to 5.5 | 2.0 |  |  | V |
| $\mathrm{V}_{\text {IL }}$ | Low-Level Input Voltage |  | 4.0 to 5.5 |  |  | 0.8 | V |
| 1 | Input Leakage Current | $0 \leq \mathrm{V}_{\mathrm{IN}} \leq 5.5 \mathrm{~V}$ | 5.5 |  |  | $\pm 1.0$ | $\mu \mathrm{A}$ |
| loz | OFF-STATE Leakage Current | $0 \leq A, B \leq V_{C C}$ | 5.5 |  |  | $\pm 1.0$ | $\mu \mathrm{A}$ |
| $\mathrm{R}_{\mathrm{ON}}$ | Switch On Resistance (Note 6) | $\mathrm{V}_{\mathrm{IN}}=0 \mathrm{~V}, \mathrm{I}_{\mathrm{IN}}=64 \mathrm{~mA}$ | 4.5 |  | 4 | 7 | $\Omega$ |
|  |  | $\mathrm{V}_{\mathrm{IN}}=0 \mathrm{~V}, \mathrm{I}_{\mathrm{IN}}=30 \mathrm{~mA}$ | 4.5 |  | 4 | 7 |  |
|  |  | $\mathrm{V}_{\mathrm{IN}}=2.4 \mathrm{~V}, \mathrm{I}_{\mathrm{IN}}=15 \mathrm{~mA}$ | 4.5 |  | 8 | 15 |  |
|  |  | $\mathrm{V}_{\mathrm{IN}}=2.4 \mathrm{~V}, \mathrm{I}_{\mathrm{IN}}=15 \mathrm{~mA}$ | 4.0 |  | 11 | 20 |  |
| ICC | Quiescent Supply Current | $\mathrm{V}_{\text {IN }}=\mathrm{V}_{\mathrm{CC}}$ or GND, IOUT $=0$ | 5.5 |  |  | 3 | $\mu \mathrm{A}$ |
| $\Delta \mathrm{l}$ CC | Increase In ICC per Input | One input at 3.4 V , Other inputs at $\mathrm{V}_{\mathrm{CC}}$ or GND | 5.5 |  |  | 2.5 | mA |

*Typical values are at $\mathrm{V}_{\mathrm{CC}}=5.0 \mathrm{~V}$ and $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$.
6. Measured by the voltage drop between A and B pins at the indicated current through the switch.

## AC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Conditions | Figures |  |  |  |  | Unit |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\mathrm{T}_{\mathrm{A}}=-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |  |  |  |  |
|  |  |  |  | $\mathrm{V}_{\mathrm{CC}}=4.5$ to 5.5 V |  | $\mathrm{V}_{\mathrm{CC}}=4.0 \mathrm{~V}$ |  |  |
|  |  |  |  | Min | Max | Min | Max |  |
| $\begin{aligned} & \mathrm{t}_{\mathrm{PHL}}, \\ & \mathrm{t}_{\mathrm{PLL}} \end{aligned}$ | Prop Delay Bus to Bus (Note 7) | $\mathrm{V}_{1}=$ OPEN | 3 and 4 |  | 0.25 |  | 0.25 | ns |
| $\begin{aligned} & \text { tpzH, } \\ & \text { tphe }^{2} \end{aligned}$ | Output Enable Time | $\mathrm{V}_{1}=7 \mathrm{~V}$ for $\mathrm{t}_{\mathrm{PZL}}$ <br> $V_{1}=$ OPEN for $t_{P Z H}$ | 3 and 5 | 1.0 | 5.0 |  | 5.5 | ns |
| $\begin{aligned} & \hline \mathrm{t}_{\text {PHZ }}, \\ & \mathrm{t}_{\mathrm{PLLZ}} \end{aligned}$ | Output Disable Time | $\mathrm{V}_{1}=7 \mathrm{~V}$ for $\mathrm{t}_{\mathrm{pLz}}$ <br> $V_{1}=$ OPEN for $\mathrm{t}_{\mathrm{PHz}}$ | 3 and 5 | 1.5 | 5.3 |  | 5.6 | ns |

7. This parameter is guaranteed by design but is not tested. The bus switch contributes no propagation delay other than the RC delay of the typical On resistance of the switch and the 50 pF load capacitance, when driven by an ideal voltage source (zero output impedance).

CAPACITANCE (Note 8)

| Symbol | Parameter | Conditions | Typ | Max | Unit |
| :---: | :--- | :--- | :---: | :---: | :---: |
| $\mathrm{C}_{\mathrm{IN}}$ | Control Pin Input Capacitance | $\mathrm{V}_{\mathrm{CC}}=5.0 \mathrm{~V}$ | 3 |  | pF |
| $\mathrm{C}_{\mathrm{I} / \mathrm{O}}$ | Input/Output Capacitance | $\mathrm{V}_{\mathrm{CC}}, \overline{\mathrm{OE}=5.0 \mathrm{~V}}$ | 5 |  | pF |

8. $\mathrm{T}_{\mathrm{A}}=+25^{\circ} \mathrm{C}, \mathrm{f}=1 \mathrm{MHz}$, Capacitance is characterized but not tested.

## AC Loading and Waveforms



NOTES:

1. Input driven by $50 \Omega$ source terminated in $50 \Omega$.
2. CL includes load and stray capacitance. ${ }^{*} \mathrm{C}_{\mathrm{L}}=50 \mathrm{pF}$

Figure 3. AC Test Circuit


Figure 4. Propagation Delays


Figure 5. Enable/Disable Delays


CASE 751A-03
ISSUE L
SCALE 1:1


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT MAXIMUM MATERIAL CONDITION.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
5. MAXIMUM MOLD PROTRUSION 0.15 PER 5. MAXIM
SIDE.

|  | MILLIMETERS |  | INCHES |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DIM | MIN | MAX | MIN | MAX |  |  |
| A | 1.35 | 1.75 | 0.054 | 0.068 |  |  |
| A1 | 0.10 | 0.25 | 0.004 | 0.010 |  |  |
| A3 | 0.19 | 0.25 | 0.008 | 0.010 |  |  |
| b | 0.35 | 0.49 | 0.014 | 0.019 |  |  |
| D | 8.55 | 8.75 | 0.337 | 0.344 |  |  |
| E | 3.80 | 4.00 | 0.150 | 0.157 |  |  |
| e | 1.27 |  | BSC | 0.050 |  | BSC |
| H | 5.80 | 6.20 | 0.228 | 0.244 |  |  |
| h | 0.25 | 0.50 | 0.010 | 0.019 |  |  |
| L | 0.40 | 1.25 | 0.016 | 0.049 |  |  |
| M | $0^{\circ}$ | $7^{\circ}$ | $0^{\circ}$ | $7^{\circ}$ |  |  |

GENERIC
MARKING DIAGRAM*
*This information is generic. Please refer to device data sheet for actual part marking. $\mathrm{Pb}-$ Free indicator, " G " or microdot " $\mathrm{\bullet}$ ", may or may not be present.

DIMENSIONS: MILLIMETERS
*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.

## STYLES ON PAGE 2

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| ---: | :--- | :--- | :--- |
| DESCRIPTION: | SOIC-14 NB | PAGE 1 OF 2 |

[^0]STYLE 1:
PIN 1. COMMON CATHODE 2. ANODE/CATHODE ANODE/CATHODE
. ANODE/CATHODE
4. NO CONNECTION
5. ANODE/CATHODE
6. NO CONNECTION
7. ANODE/CATHODE
8. ANODE/CATHODE
9. ANODE/CATHODE
10. NO CONNECTION
11. ANODE/CATHODE
2. ANODE/CATHODE
3. NO CONNECTION
4. COMMON ANODE

STYLE $5:$
PIN 1. COMMON CATHODE
2. ANODE/CATHODE
3. ANODE/CATHOD
4. ANODE/CATHODE
4. ANODE/CATHODE
6. ANODE/CATHODE
7. NO CONNECTION
7. COMMON ANODE
8. COMMON CATHOD
9. ANODE/CATHODE
0. ANODE/CATHODE
11. ANODE/CATHODE
2. ANODE/CATHODE
13. NO CONNECTION
14. COMMON ANODE

STYLE 2:
CANCELLED

STYLE 3:
PIN 1. NO CONNECTION 2. ANODE 3. ANODE
4. NO CONNECTION 5. ANODE
6. NO CONNECTION
7. ANODE
8. ANODE
9. ANODE
10. NO CONNECTION
11. ANODE
12. ANODE
13. NO CONNECTION
14. COMMON CATHODE

STYLE 6:
PIN 1. CATHODE
2. CATHODE
3. CATHODE
4. CATHODE
4. CATHODE
5. CATHODE
6. CATHODE
7. CATHOD

ANODE
9. ANODE
10. ANODE
11. ANODE
12. ANODE
13. ANODE
14. ANODE

STYLE 7:
PIN 1. ANODE/CATHODE
. COMMON ANODE
. COMMON CATHODE
4. ANODE/CATHODE
5. ANODE/CATHODE
6. ANODE/CATHODE
7. ANODE/CATHODE
7. ANODE/CATHODE
8. ANODE/CATHODE
10. ANODE/CATHODE
11. COMMON CATHODE
12. COMMON ANODE
13. ANODE/CATHODE
14. ANODE/CATHODE

STYLE 4:
PIN 1. NO CONNECTION 2. CATHODE 3. CATHODE
4. NO CONNECTION 5. CATHODE
6. NO CONNECTION
7. CATHODE
8. CATHODE
9. CATHODE
10. NO CONNECTION
11. CATHODE
12. CATHODE
13. NO CONNECTION
14. COMMON ANODE

STYLE 8:
PIN 1. COMMON CATHODE
2. ANODE/CATHODE
3. ANODE/CATHODE
4. NO CONNECTION
4. NO CONNECTION
5. ANODE/CATHODE
6. ANODE/CATHODE
7. COMMON ANODE
8. COMMON ANODE
9. ANODE/CATHODE
10. ANODE/CATHODE
11. NO CONNECTION
11. NO CONNECTION
12. ANODE/CATHODE
13. ANODE/CATHODE
14. COMMON CATHODE

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| ---: | :--- | :--- | :--- |
| DESCRIPTION: | SOIC-14 NB | PAGE 2 OF 2 |

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DIMENSIONS：MILLIMETERS

## NOTES：

．DIMENSIONING AND TOLERANCING PER ANSI Y14．5M， 1982
2．CONTROLLING DIMENSION：MILLIMETER．
3．DIMENSION A DOES NOT INCLUDE MOLD FLASH，PROTRUSIONS OR GATE BURRS． FLASH，PROTRUSIONS OR GATE BURRS． MOLD FLASH OR GATE BURRS
4．DIMENSION BDOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION． INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 （ 0.010 ）PER SIDE．
5．DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION．ALLOWABLE DAMBAR
PROTRUSION SHALL BE 0.08 （0．003）TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION．
6．TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY
7．DIMENSION A AND B ARE TO BE
DETERMINED AT DATUM PLANE－W－．

| DIM | MILLIMETERS |  | INCHES |  |
| :---: | :---: | :---: | :---: | :---: |
|  | MIN | MAX | MIN | MAX |
| A | 4.90 | 5.10 | 0.193 | 0.200 |
| B | 4.30 | 4.50 | 0.169 | 0.177 |
| C | －－－ | 1.20 | －－－ | 0.047 |
| D | 0.05 | 0.15 | 0.002 | 0.006 |
| F | 0.50 | 0.75 | 0.020 | 0.030 |
| G | 0.65 BSC |  | 0.026 BSC |  |
| H | 0.50 | 0.60 | 0.020 | 0.024 |
| J | 0.09 | 0.20 | 0.004 | 0.008 |
| J1 | 0.09 | 0.16 | 0.004 | 0.006 |
| K | 0.19 | 0.30 | 0.007 | 0.012 |
| K1 | 0.19 | 0.25 | 0.007 | 0.010 |
| L | 6.40 BSC |  | 0.252 BSC |  |
| M | $0^{\circ}$ | $8^{\circ}$ | $0^{\circ}$ | $8^{\circ}$ |

GENERIC MARKING DIAGRAM＊

| 14 月HBHE日为 |
| :---: |
| XXXX |
| XXXX |
| ALYW• |
| $\bigcirc$－ |
| 渣昰 |


| A | $=$ Assembly Location |
| :--- | :--- |
| L | $=$ Wafer Lot |
| Y | $=$ Year |
| W | $=$ Work Week |
| － | $=$ Pb－Free Package |

（Note：Microdot may be in either location）
＊This information is generic．Please refer to device data sheet for actual part marking． $\mathrm{Pb}-F r e e ~ i n d i c a t o r, ~ " ~ G " ~ o r ~ m i c r o d o t ~ " ~ " ", ~$ may or may not be present．

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| DESCRIPTION： | TSSOP－14 WB | PAGE 1 OF 1 |

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