

# FSA2268 / FSA2268T Low-Voltage Dual-SPDT (0.4Ω) Analog Switch with 16kV ESD

## Features

- 0.4Ω Typical On Resistance ( $R_{ON}$ ) for +3.0V Supply
- 0.25Ω Maximum  $R_{ON}$  Flatness for +3.0V Supply
- -3db Bandwidth: > 50MHz
- Low  $I_{CCT}$  Current Over an Expanded Control Input Range
- Packaged in Pb-free 10-Lead  $\mu$ MLP (1.4 x 1.8mm)
- Power-Off Protection on Common Ports
- Broad  $V_{CC}$  Operating Range: 1.65 to 4.3V
- HBM JEDEC: JESD22-A114
  - I/O to GND: 13.5kV
  - Power to GND: 16.0kV
- Noise Immunity Termination Resistors in FSA2268T

## Applications

- Cell Phone, PDA, Digital Camera, and Notebook
- LCD Monitor, TV, and Set-Top Box

## Description

The FSA2268 is a high-performance, dual Single Pole Double Throw (SPDT) analog switch that features ultra-low  $R_{ON}$  of 0.4Ω (typical) at 3.0V  $V_{CC}$ . The FSA2268 operates over a wide  $V_{CC}$  range of 1.65V to 4.3V and is designed for break-before-make operation. The select input is TTL-level compatible.

The FSA2268 features very low quiescent current even when the control voltage is lower than the  $V_{CC}$  supply. This feature suits mobile handset applications by allowing direct interface with baseband processor general-purpose I/Os with minimal battery consumption.

The FSA2268T includes termination resistors that improve noise immunity during overshoot excursions, off-isolation coupling, or “pop-minimization.”

## IMPORTANT NOTE:

For additional performance information, please contact [analogswitch@fairchildsemi.com](mailto:analogswitch@fairchildsemi.com).

## Ordering Information

Part Number	Package Number	Top Mark	Pb-Free	Package Description
FSA2268UMX	MLP010A	GF	Yes	10-Lead, Quad Ultrathin Molded Leadless Package (MLP), 1.4 x 1.8mm, 0.4mm pitch
FSA2268TUMX	MLP010A	GH	Yes	10-Lead, Quad Ultrathin Molded Leadless Package (MLP), 1.4 x 1.8mm, 0.4mm pitch

## Analog Symbols

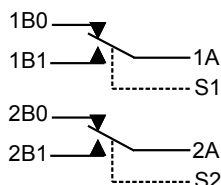


Figure 1. FSA2268

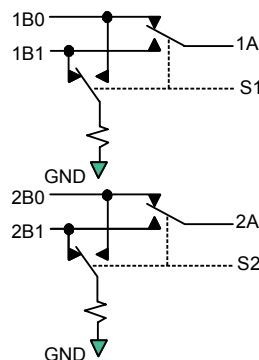


Figure 2. FSA2268T (with Noise Termination Resistors)

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FACT Quiet Series <sup>TM</sup>	MicroPak <sup>TM</sup>	QT Optoelectronics <sup>TM</sup>		
FAST <sup>®</sup>	MICROWIRE <sup>TM</sup>	Quiet Series <sup>TM</sup>		
FAST <sup>r</sup> <sup>TM</sup>	MSX <sup>TM</sup>	RapidConfigure <sup>TM</sup>	Across the board. Around the world. <sup>TM</sup>	
FPS <sup>TM</sup>	MSXPro <sup>TM</sup>	RapidConnect <sup>TM</sup>	Programmable Active Droop <sup>TM</sup>	
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