

# FSA2269 / FSA2269TS — Low-Voltage Dual-SPDT (0.4Ω) Analog Switch with Negative Swing Audio Capability

## 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 10-Lead MicroPak™ and UMLP
- Power-Off Protection on Common Ports
- Broad  $V_{CC}$  Operating Range: 1.65 to 4.3V
- Noise Immunity Termination Resistors in FSA2269TS

## Applications

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

## Description

The FSA2269 is a high-performance, dual Single-Pole Double-Throw (SPDT) analog switch with negative swing audio capability. The FSA2269 features ultra-low  $R_{ON}$  of 0.4Ω (typical) at 3.0V  $V_{CC}$ . The FSA2269 operates over a wide  $V_{CC}$  range of 1.65V to 4.3V, is fabricated with sub-micron CMOS technology to achieve fast switching speeds, and is designed for break-before-make operation. The select input is TTL-level compatible.


The FSA2269 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 FSA2269TS 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	Top Mark	 Eco Status	Package Description
FSA2269L10X	HL	RoHS	10-Lead, MicroPak, JEDEC MO-255, 1.6 x 2.1mm
FSA2269UMX	HP	Green	10-Lead, Quad Ultrathin Molded Leadless Package (UMLP), 1.4x1.8mm, 0.4mm pitch
FSA2269TSL10X	HU	RoHS	10-Lead, MicroPak, JEDEC MO-255, 1.6 x 2.1mm
FSA2269TSUMX	HT	Green	10-Lead, Quad Ultrathin Molded Leadless Package (UMLP), 1.4x1.8mm, 0.4mm pitch

 For Fairchild's definition of “green” Eco Status, please visit: [http://www.fairchildsemi.com/company/green/rohs\\_green.html](http://www.fairchildsemi.com/company/green/rohs_green.html).

## Analog Symbols

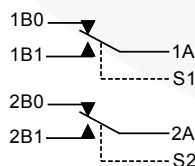


Figure 1. FSA2269

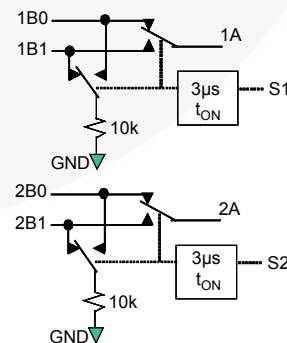


Figure 2. FSA2269TS (with Slow Turn On)



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|                                                                                   |                                                                                   |  |                                                                                     |

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