FAIRCHILD
SEMICONDUCTOR®

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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 Pb-free 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.

Ordering Information

Part Number	Top Mark	Package Description
FSA2269L10X	HL	10-Lead, MicroPak, JEDEC MO-255, 1.6 x 2.1mm
FSA2269UMX	HP	10-Lead, Quad Ultrathin Molded Leadless Package (UMLP), 1.4x1.8mm, 0.4mm pitch
FSA2269TSL10X	HN	10-Lead, MicroPak, JEDEC MO-255, 1.6 x 2.1mm
FSA2269TSUMX	HS	10-Lead, Quad Ultrathin Molded Leadless Package (UMLP), 1.4x1.8mm, 0.4mm pitch

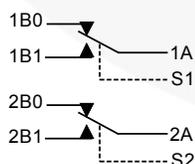🍃 All packages are lead free per JEDEC: J-STD-020B standard.

Analog Symbols

Figure 1. FSA2269
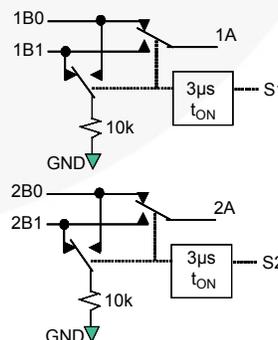

Figure 2. FSA2269TS (with Slow Turn On)

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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