



# FSA2380 — Low R<sub>ON</sub> (0.75Ω) 3:1 Negative Swing Audio Source Switch

## Features

- 10μA Maximum I<sub>CCT</sub> Current Over An Expanded Control Voltage Range (V<sub>IN</sub>=2.6V, V<sub>CC</sub>=4.3V)
- C<sub>ON</sub> Capacitance 70pF Typical
- 0.75Ω Typical On Resistance (R<sub>ON</sub>)
- 1Bn, 2Bn Ports Support Negative Swing Audio to -2V
- -3db Bandwidth: > 120 MHz
- Low Power Consumption (1μA maximum)
- Power-Off Feature for 1A/2A Pin (I<sub>IN</sub> < 2μA)
- Packaged in Pb-Free 14-Pin TSSOP and DQFN

## Applications

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

## Description

The FSA2380 is a Double-Pole, Triple Throw (DP3T) multiplexer that routes three dual-channel sources of data or audio under the control of a single pair of select pins. The FSA2380 has special circuitry on the 1A/2A pins to allow a power-off feature. With the V<sub>CC</sub> supply removed and voltage on the 1A/2A pins, there is minimal leakage current into the 1A/2A data pins. The FSA2380 also features very low quiescent current and a power-off feature to extend battery life. The low quiescent current feature allows mobile handset applications direct interface with the baseband processor general-purpose I/Os. Typical applications involve switching in portables and consumer applications, such as cell phones, digital cameras, and notebooks with hubs or controllers.

### IMPORTANT NOTE:

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

## Ordering Information

Part Number	Top Mark	Packing Description
FSA2380BQX	2380	14-Terminal Depopulated very thin Quad Flat-pack No leads (DQFN) 2.5 x 3.0mm, JEDEC MO-241
FSA2380MTCX	FSA2380	14-Lead Thin Shrink Small Outline Package (TSSOP) 4.4mm wide, JEDEC MO-153

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

## Analog Symbol

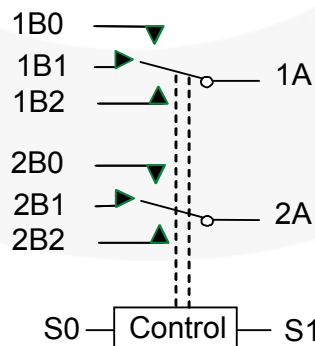



Figure 1. FSA2380 Analog Symbol



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### PRODUCT STATUS DEFINITIONS

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