

## FSA6157 / FSA6157T Low- $R_{ON}$ SPDT (0.8 $\Omega$ ) Negative-Swing Audio or Video Switch

### Features

- 0.8 $\Omega$  Typical On Resistance ( $R_{ON}$ ) for +2.7V Supply
- 0.45 $\Omega$  Maximum  $R_{ON}$  Flatness for +2.7V Supply
- -3db Bandwidth: > 50MHz
- Low  $I_{CCT}$  Current Over an Expanded Control Input Range
- Packaged in Pb-free 6-Lead MicroPak™ (1.0 x 1.4mm)
- Power-Off Protection on All I/O Ports
- Broad  $V_{CC}$  Operating Range: 1.65 to 4.3V
- HBM JEDEC: JESD22-A114
  - I/O to GND: 12kV
  - Power to GND: 16kV
- Noise Reduction Termination Resistors in FSA6157T

### Applications

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

### Description

The FSA6157 is a high-performance, Single Pole Double Throw (SPDT) analog switch that features a low  $R_{ON}$  of 0.8 $\Omega$  (typical) at 2.7V supply. The FSA6157 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 FSA6157 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 FSA6157T includes termination resistors to improve the susceptibility to noise 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	Package Description
FSA6157L6X	GT	6-Lead, MicroPak™, 1.0mm wide, JEDEC MO-255
FSA6157TL6X (Preliminary)		6-Lead, MicroPak™, 1.0mm wide, JEDEC MO-255

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

### Analog Symbols

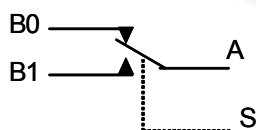


Figure 1. FSA6157

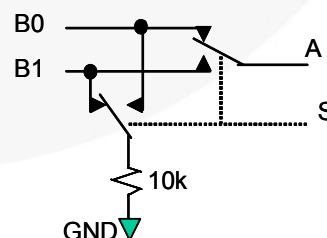



Figure 2. FSA6157T (with Noise Termination Resistors)



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