SGM3719

4Ω, 400MHz Bandwidth, SPDT Negative Signal Handling Analog Switch

Previous Next Return list



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Datasheet Sample

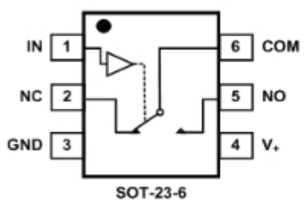
GENERAL DESCRIPTION

The SGM3719 is a bidirectional, SPDT (single-pole/double-throw), CMOS analog switch. It operates from a 2.5V to 5V single power supply and can handle a -2V negative signal.

The SGM3719 features high-speed, low on-resistance, low voltage and high bandwidth. The high performances make it very suitable for multiple applications, such as portable equipment, audio and video signal routing, etc. In addition, the SGM3719 can be used as a dual bidirectional 2-to-1 multiplexer because it has a normally open switch and a normally closed switch. Low power consumption is also one of the important reasons that make it a good choice.

The SGM3719 is available in a Green SOT-23-6 package. It operates over an ambient temperature range of -40℃ to +85℃.

PIN CONFIGURATIONS



SOT-23-6

FEATURES

- Single Supply Voltage Range: 2.5V to 5V
- Negative Signal Swing Capability: -2V to V_+
- Low On-Resistance: 4Ω (TYP) at V_+ = 5V
- Fast Switching Times:

  t_{ON}: 15ns (TYP)

  t_{OFF}: 11ns (TYP)
- Low On-Resistance Flatness
- -3dB Bandwidth: 400MHz
- High Off-Isolation: -49dB at 10MHz
- Low Crosstalk: -52dB at 10MHz
- 1.8V Logic Control
- Break-Before-Make Switching
- -40℃ to +85℃ Operating Temperature Range
- Available in a Green SOT-23-6 Package

APPLICATIONS

Cellular Phones

Portable Equipment

Computer Peripherals

Sample-and-Hold Circuits

Personal Digital Assistants

Battery-Powered Systems

Audio and Video Signal Routing

ORDERING INFORMATION

Part Number	Status	Package	Pins	Pb-Free	Temp Range	
SGM3719YN6G/TR	Production	SOT-23-6	6	Y	-40℃ to +85℃	Samples

Contact Us

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