

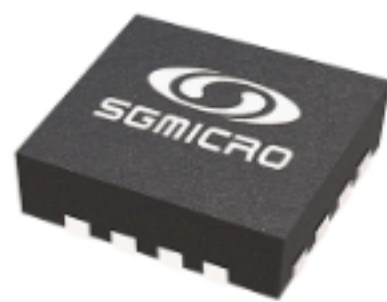
SGM3700

4Ω, High Speed, Low Voltage, Dual, DPDT Negative Signal Handling Analog Switch

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4Ω, High Speed, Low Voltage, Dual, DPDT Negative Signal Handling Analog Switch



Datasheet



Sample

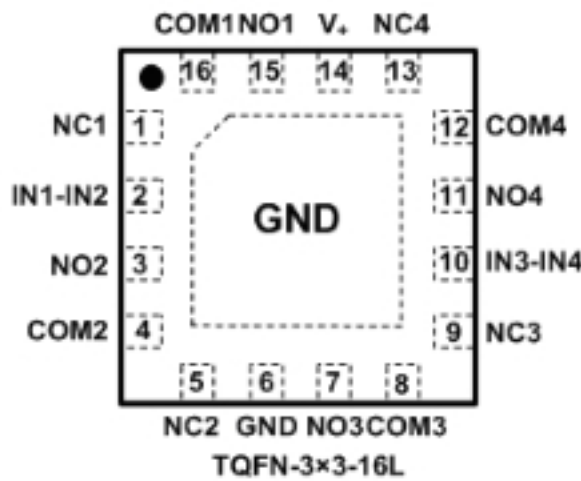
GENERAL DESCRIPTION

The SGM3700 is a dual, double-pole/double-throw (DPDT), CMOS analog switch. It operates from a 2.5V to 5.5V single power supply and can handle a -2.5V negative signal.

The SGM3700 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 SGM3700 can be used as a dual bidirectional 2-to-1 multiplexer/demultiplexer because it has two logic control inputs and each input controls two multiplexers/demultiplexers. Low power consumption is also one of the important reasons that make it a good choice.

The SGM3700 is available in Green TQFN-3×3-16L package. It operates over an ambient temperature range of -40°C to +85°C.

PIN CONFIGURATIONS



FEATURES

- Single Supply Voltage Range: 2.5V to 5.5V
- Negative Signal Swing Capability: -2.5V to V₋
- Low On-Resistance: 4Ω (TYP) at V₋ = 5V
- Fast Switching Times (V₋ = 5V):
 - t_{on}: 15ns
 - t_{off}: 9ns
- Low On-Resistance Flatness
- 3dB Bandwidth: 380MHz
- High Off-Isolation: -67dB at 1MHz
- Low Crosstalk: -77dB at 1MHz
- Break-Before-Make Switching
- 40°C to +85°C Operating Temperature Range
- Available in a Green TQFN-3×3-16L 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	
SGM3700YTQ16G/TR	Production	TQFN-3×3-16L	16	Y	-40°C to +85°C	Samples



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