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SGM2566

6A, 17mΩ On-Resistance Load Switch

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6A, 17mΩ On-Resistance Load Switch

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GENERAL DESCRIPTION

The SGM2566A and SGM2566B are single channel load switches. The switches operate from a wide range of 0.8V to 5.3V ($\leq V_{BIAS}$) supply and are controlled by the EN/nFAULT pin. The V_{OUT} rise time can be programmed by setting an additional capacitor to the SS pin. They can support a 6A maximum continuous switch current.

A 17mΩ low $R_{DS(on)}$ N-MOSFET is integrated. The small size and quiescent current make the device very suitable for space limited, battery powered applications.

A number of protection features are provided in the device including soft-start, reverse-voltage protection and thermal shutdown. The SGM2566 has quick output discharge function in disable status.

The SGM2566A and SGM2566B are available in a Green TDFN-2×2-8L package. They are rated over the -40°C to +105°C temperature range.

PIN CONFIGURATIONS



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FEATURES

- Input Voltage Range: 0.8V to 5.3V
- Low On-Resistance:
 $R_{DS(on)} = 17m\Omega$ at $V_{IN} = 3.3V$ ($V_{BIAS} = 5V$)
- Maximum Continuous Current: 6A
- Low Quiescent Current:
 $16\mu A$ ($V_{BIAS} = 5V$)
 $10\mu A$ ($V_{BIAS} = 2.5V$)
- Protection Features
 - Soft-Start
 - Reverse-Voltage Protection

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TOP

Thermal Shutdown
Short-Circuit Protection

- Adjustable Rise Time
- Enable Input or Alert Output (EN/nFAULT Pin)
- Quick Output Discharge: SGM2566A
- -40°C to +105°C Operating Temperature Range
- Available in a Green TDFN-2×2-8L Package

APPLICATIONS

Ultrabook
Notebook
Netbook
Tablet PC

ORDERING INFORMATION

Part Number	Status	Package	Pins	Pb-Free	Temp Range	
SGM2566BGTDE8G/TR	Production	TDFN-2×2-8L	8	Y	-40°C to +105°C	Sa
SGM2566AGTDE8G/TR	Production	TDFN-2×2-8L	8	Y	-40°C to +105°C	Sa

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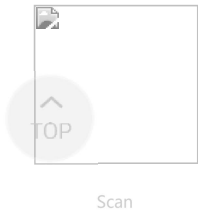
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