

SGM2526

Programmable Current Limit Switch with Output Voltage Clamping

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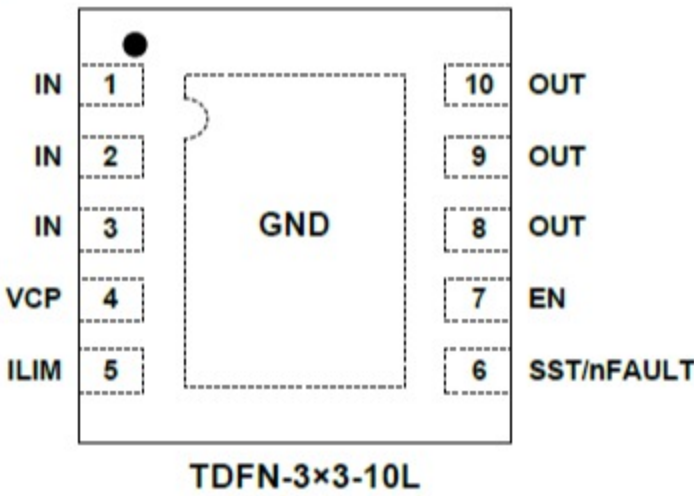
DatasheetSample

GENERAL DESCRIPTION

The SGM2526 is a compact electronic fuse (eFuse), which can operate from 4.5V to 22V single supply. A 23mΩ low R_{ON} N-MOSFET is integrated. The two clamping output threshold voltages can be programmed through VCP pin. The clamping voltage protection function can ensure the safe operation of surge events in any state.

The soft-start time can be adjusted by setting an additional capacitor to the SST pin. Thermal shutdown shuts off the output MOSFET if the die temperature exceeds +150°C, and the output MOSFET remains off until the die temperature drops to +130°C. The SGM2526 is available in a Green TDFN-3×3-10L package and operates over a temperature range of -40°C to +85°C.

PIN CONFIGURATIONS



FEATURES

- Wide Input Voltage Range from 4.5V to 22V with Surge up to 30V
- On-Resistance: 23mΩ
- Selectable Input Range and Clamping Output Voltage Threshold
- Programmable Current Limit: 5A (MAX)
- Protection Features
 - Programmable Soft-Start Time
 - Thermal Shutdown Protection & Auto-Recovery
- Logic-Controlled EN Pin
- -40°C to +85°C Operating Temperature Range
- Available in a Green TDFN-3×3-10L Package

APPLICATIONS

Service PC
Notebook PC
iPad Mini

ORDERING INFORMATION

Part Number	Status	Package	Pins	Pb-Free	Temp Range	
SGM2526YTD10G/TR	Production	TDFN-3×3-10L	10	Y	-40°C to +85°C	Samples



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Address: No. 87 North Xisanhuan Road, IFEC, Suite D -1106,
Haidian District, Beijing, China
Zip Code: 100089
Tel: 010-88825716/17
Fax: 010-88825736

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