

SGM2521/A

Programmable Current Limit Switch

None

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Return list



Programmable Current Limit Switch



Datasheet



Sample

GENERAL DESCRIPTION

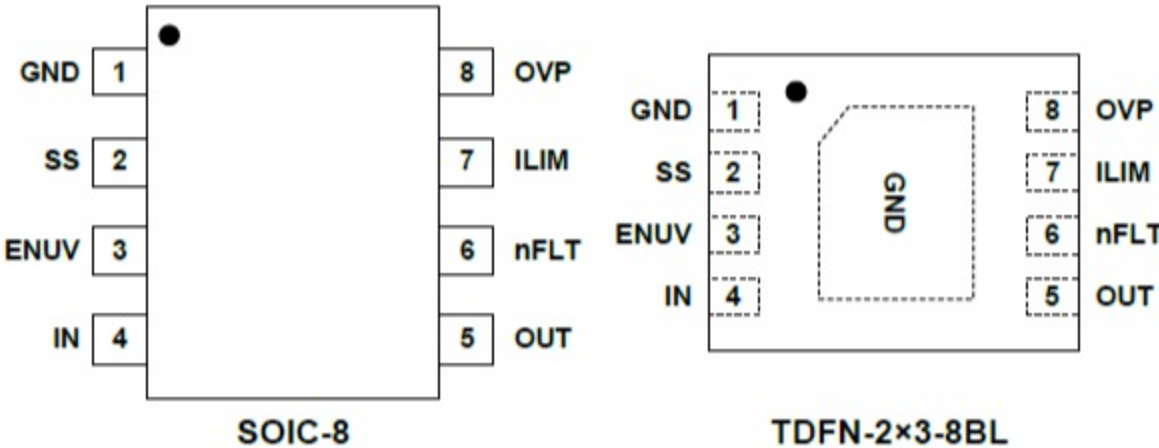
The SGM2521/SGM2521A/SGM2522/SGM2522A are compact electronic fuses (eFuses), which can operate from 4.5V to 24V single supply. SGM2521/1A/2/2A are designed for a wide range of applications and can provide $\pm 7\%$ current limit accuracy.

Internal protection functions are provided for over-current protection (OCP), over-voltage protection (OVP) and under-voltage lockout (UVLO). Fault conditions are indicated by the nFLT pin.

The threshold accuracy of UV and OV is 3%, which ensures close monitoring of bus voltage and reduces the demand of monitoring circuit.

The SGM2521/1A/2/2A are available in Green SOIC-8 and TDFN-2×3-8BL packages and operate over a temperature range of -40°C to +85°C.

PIN CONFIGURATIONS



FEATURES

- Wide Input Voltage Range from 4.5V to 24V with Surge up to 30V
- On-Resistance:
 - 58mΩ (SOIC-8 Package)
 - 57mΩ (TDFN-2×3-8BL Package)
- Programmable Soft-Start Time
- Programmable Current Limit: 260mA to 2A
- $\pm 7\%$ Current Limit Accuracy at $T_A = +25^{\circ}\text{C}$
- Protection Features
 - Over-Current Protection
 - Over-Voltage Protection
 - Under-Voltage Lockout
 - Fault Output for Thermal Shutdown, Short-Circuit, UVLO and OVP
- Enable Interface Pin
- Thermal Shutdown Protection: Auto-Recovery
- -40°C to +85°C Operating Temperature Range
- Available in Green SOIC-8 and TDFN-2×3-8BL Packages

APPLICATIONS

Hard Drives

PCIe SSD

Motherboard Power Management

White Goods, Appliances

Set-Top Boxes, DVD and Gaming Consoles

ORDERING INFORMATION

Part Number	Status	Package	Pins	Pb-Free	Temp Range	
SGM2521AYTDC8G/TR	Production	TDFN-2×3-8BL	8	Y	-40°C to +85°C	Samples
SGM2521AYS8G/TR	Production	SOIC-8	8	Y	-40°C to +85°C	Samples
SGM2521YTDC8G/TR	Production	TDFN-2×3-8BL	8	Y	-40°C to +85°C	Samples
SGM2521YS8G/TR	Production	SOIC-8	8	Y	-40°C to +85°C	Samples



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