

GENERAL DESCRIPTION

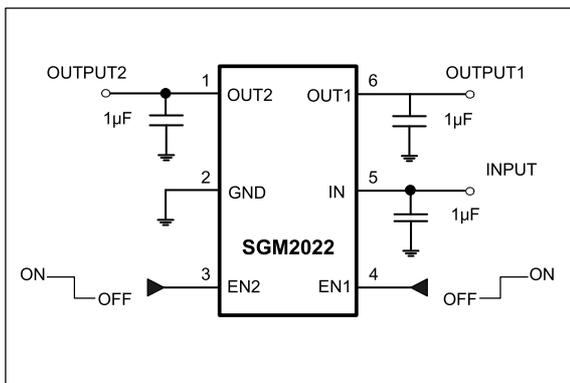
The SGM2022 is a dual, low-power, low-dropout, CMOS linear voltage regulator. It operates from a 2.5V to 5.5V input voltage and delivers up to 250mA at each channel.

The SGM2022 is the perfect choice for low voltage, low power applications. The ground current is 190µA (both LDO's enabled and active) that makes this part attractive for battery operated power systems. The SGM2022 also offers low dropout voltage (250mV at 250mA output) to prolong battery life in portable electronics.

Separate enable pins control each individual LDO output. The EN function allows the output of each regulator to be turned off independently, resulting in greatly reduced power consumption. Other features include a 10nA logic-controlled shutdown mode, current limit and thermal shutdown protection.

The SGM2022 is available in Green SOT-23-6 package. It operates over an ambient temperature range of -40°C to +85°C.

TYPICAL OPERATION CIRCUIT



FEATURES

- **Highly Accurate: ±2%**
- **Ultra-Low Dropout Voltage:
250mV at 250mA Output**
- **190µA No-Load Supply Current**
- **Thermal-Overload Protection**
- **Output Current Limit**
- **10nA Logic-Controlled Shutdown**
- **Operating Temperature Range: -40°C to +85°C**
- **Available in Green SOT-23-6 Package**

APPLICATIONS

- Cellular Telephones
- Cordless Telephones
- PCMCIA Cards
- Modems
- MP3 Player
- Hand-Held Instruments
- Palmtop Computers
- Wireless LAN
- Portable/Battery-Powered Equipment

PACKAGE/ORDERING INFORMATION

ORDERING NUMBER	V _{OUT1}	V _{OUT2}	PIN-PACKAGE	SPECIFIED TEMPERATURE RANGE	PACKAGE MARKING	PACKAGE OPTION
SGM2022-AYN6/TR	2.8V	2.8V	SOT-23-6	-40°C to +85°C	2022A	Tape and Reel, 3000
SGM2022-CYN6/TR	2.8V	3.0V	SOT-23-6	-40°C to +85°C	2022C	Tape and Reel, 3000
SGM2022-DYN6/TR	2.8V	2.5V	SOT-23-6	-40°C to +85°C	2022D	Tape and Reel, 3000
SGM2022-EYN6/TR	2.8V	1.8V	SOT-23-6	-40°C to +85°C	2022E	Tape and Reel, 3000
SGM2022-GYN6/TR	2.5V	1.8V	SOT-23-6	-40°C to +85°C	2022G	Tape and Reel, 3000
SGM2022-HYN6/TR	3.3V	2.5V	SOT-23-6	-40°C to +85°C	2022H	Tape and Reel, 3000
SGM2022-IYN6/TR	3.3V	1.8V	SOT-23-6	-40°C to +85°C	2022I	Tape and Reel, 3000
SGM2022-KYN6/TR	3.0V	1.8V	SOT-23-6	-40°C to +85°C	2022K	Tape and Reel, 3000
SGM2022-MYN6/TR	2.8V	1.2V	SOT-23-6	-40°C to +85°C	2022M	Tape and Reel, 3000
SGM2022-NYN6/TR	2.8V	1.3V	SOT-23-6	-40°C to +85°C	2022N	Tape and Reel, 3000
SGM2022-OYN6/TR	2.8V	1.5V	SOT-23-6	-40°C to +85°C	2022O	Tape and Reel, 3000
SGM2022-PYN6/TR	1.5V	2.8V	SOT-23-6	-40°C to +85°C	2022P	Tape and Reel, 3000
SGM2022-QYN6/TR	2.5V	1.5V	SOT-23-6	-40°C to +85°C	2022Q	Tape and Reel, 3000
SGM2022-RYN6/TR	2.5V	2.8V	SOT-23-6	-40°C to +85°C	2022R	Tape and Reel, 3000
SGM2022-SYN6/TR	1.3V	2.8V	SOT-23-6	-40°C to +85°C	2022S	Tape and Reel, 3000
SGM2022-TYN6/TR	1.5V	3.3V	SOT-23-6	-40°C to +85°C	2022T	Tape and Reel, 3000
SGM2022-UYN6/TR	3.3V	3.0V	SOT-23-6	-40°C to +85°C	2022U	Tape and Reel, 3000
SGM2022-VYN6/TR	1.8V	3.3V	SOT-23-6	-40°C to +85°C	2022V	Tape and Reel, 3000
SGM2022-WYN6/TR	1.2V	2.8V	SOT-23-6	-40°C to +85°C	2022W	Tape and Reel, 3000
SGM2022-XYN6/TR	3.3V	2.8V	SOT-23-6	-40°C to +85°C	2022X	Tape and Reel, 3000
SGM2022-YYN6/TR	1.8V	2.8V	SOT-23-6	-40°C to +85°C	2022Y	Tape and Reel, 3000
SGM2022-ZYN6/TR	1.8V	1.8V	SOT-23-6	-40°C to +85°C	2022Z	Tape and Reel, 3000
SGM2022-AAYN6/TR	1.2V	1.8V	SOT-23-6	-40°C to +85°C	2022AA	Tape and Reel, 3000

NOTE: Order number is defined as the follow:

ORDER NUMBER

SGM2022- X Y X / TR

