

COMMITMENT TO CUSTOMER SUCCESS SINCE 2008

PRODUCTOUTILINE SGC77050\_01\_GF\_22FDSOI LDO WITH ULP LUDICROUS MODE

## Features

- Low-Dropout Regulator (LDO) with enable
- Ludicrous Low Power Mode
- Power good detector
- Fast transient response
- Output current up to 50mA
- Soft start and over current protection
- Large input voltage range, from 1.80V to 5.50V
- Programmable output voltage range, from 1.50V to

2.00V

## General Description

SGC77050\_01\_GF\_22FDSOI is a low-dropout, high current, fast response linear regulator for integration on SoC. Presenting high stability and robust regulation, while maintaining low dropout and ultra-low quiescent, it is the ideal solution for IoT applications. Offering good PSRR, soft start and over current protection, the SGC77050\_01\_GF\_22FDSOI provides an innovative Ludicrous Ultra Low Power Mode that guarantees a quiescent reduction to virtually "0" quiescent. Being specified from TJ = -40°C to +125°C, it is designed to achieve 3% overall accuracy (over Load / Line / Temp).

## Applications

• SoC

• IoT

## **Quick Reference**

SYMBOL	DESCRIPTION	MIN	ТҮР	MAX	UNIT
V <sub>IN</sub>	Input Sup.	1.80	-	5.50	V
V <sub>DVDD</sub>	Digital Sup.	0.50	-	1.20	V
V <sub>O</sub>	Normal V <sub>OUT</sub>	1.50	1.80	2.00	V
Vo	ULP V <sub>OUT</sub>	1.00	-	2.00	V
Ι <sub>Ο</sub>	Out Current	0	-	50	mA