

COMMITMENT TO CUSTOMER SUCCESS SINCE 2008

POWER CONTROLLER

Features

- Advanced Power Controller w/POR, UVLO and OVP
- Large input voltage range, from 1.80V to 5.50V
- High Power and Low Power operation modes
- Reference voltage up to 10 decoupled outputs
- Up to 10 high power bias current outputs
- Up to 13 low power bias current outputs
- · Clock generator
- · 4 Reset cause outputs

General Description

SGC21412_01_GF_22FDSOI is an Advanced Power Controller (APC) for integration in SoC. Including all the necessary auxiliary supply, monitoring, protection and POR functions , it is the ideal solution for any IoT Power Management Unit (PMU). Offering high power supply rejection (PSRR), s tart-up sequencing and independent voltage reference decoupling, without the need for extra package pins , it is stable without any external decoupling capacitor. Additionally, all generated references include digital trimming bits for increased performance or yield improvement. Designed to achieve 1% overall voltage reference accuracy (over $Load \mid Line \mid Temp \mid Process$), it is specified from TJ = -40°C to +125°C.

Applications

- SoC
- IoT

Quick Reference

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
V _{IN}	Input Sup.	1.80	-	5.50	V
V_{DVDD}	Digital Sup.	0.50	-	0.90	V
F _{CLCK}	Generated Frequency	3.60	4.0	4.40	MHz