

DC-DC WITH ULP LUDICROUS MODE

Features

- Ultra-fast response high power DC/DC
- *Ludicrous Low Power Mode*
- Output current up to 200mA
- Low quiescent
- Low ripple
- Power good comparator and flag
- Soft start and over current protection
- Large input voltage range, from 1.80V to 5.50V
- Programmable output range, from 0.50V to 1.28V

Applications

- IoT
- Wireless communications
- Video applications
- Portable Media Players

Applications Diagram

General Description

SGC67020_01_GF_22FDSOI is an ultra-fast response, high output current, step down switched DC/DC regulator. Making use of advanced control techniques, to achieve soft start-up, superb transient response and instantaneous over current protection, it is the best solution for high power digital cores with fast activity variation (where most DC/DC converters fail). Additionally, it provides an innovative *Ludicrous Ultra Low Power Mode* that guarantees a quiescent reduction to virtually "0" quiescent. The *SGC67020_01_GF_22FDSOI* operates with output coils as low as 2.2 μ H and any type of output capacitor. Specified from T_J = -40 °C to +125°C, it is designed to achieve 3% overall accuracy (over Load / Line / Temp).

Quick Reference

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
V _{IN}	Input Sup.	1.80	—	5.50	V
V _{DVDD}	Digital Sup.	0.50	—	1.20	V
V _O	Out Voltage	0.50	—	1.28	V
I _O	Out Current	0	—	200	mA