

## Features

- DC-DC PWM BUCK ultra fast response high power
- Seamless auto switching between PWM/VFM
- Available in multiple output versions: fixed and 4-8 bit programmable
- Available with seven output current ranges: from 300 mA to 3.0 A
- Wide input voltage range: 1.8 V to 5.5 V
- Small 1 uH inductor
- Soft start and overcurrent protection
- Power good comparator and flag

## General Description

DC-DC PWM BUCK: The DCDC SGC67 is an ultra fast response, high output current, step down switched DC-DC regulator IP. It is the best supply solution for high power power digital cores with fast activity variation ( where most DC-DC converters fail). Specially designed for SoC integration it uses advanced control techniques to achieve soft start-up, superb transient response and instantaneous overcurrent protection. The SGC67 operates with output coils as low as 0.47 uH and any type of output capacitor. It is specified from  $T_J = -40\text{ }^\circ\text{C}$  to  $+125\text{ }^\circ\text{C}$  and it is designed to achieve 3 % overall accuracy (over Load/Line/Temp).

## Applications

## Quick Reference

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