

## Features

- DC-DC BUCK Low power
- Ultra low IQ: 6  $\mu$ A
- Available in multiple output versions: fixed and 4-8 bit programmable
- Available with seven output current ranges from 50 mA to 300 mA
- Low ripple: 5 mV typical
- Large input range, from 1.8 V to 5.5 V
- Small 1  $\mu$ H inductor
- Soft start and overcurrent protection
- Power good comparator and flag

## General Description

DC-DC BUCK: The SGC62 family of fast response, ultra low quiescent step down switched DC-DC regulator IP solutions for integration on SoC is the best solution for low power digital cores with fast activity variation ( where most DC-DC converters fail). The family uses advanced control techniques to achieve soft start-up, superb transient response, and instantaneous overcurrent protection. The SGC62 operates with output coils as low as 1.0  $\mu$ H and any type of output capacitor. It is specified from  $T_J = -40^\circ\text{C}$  to  $+125^\circ\text{C}$  and is designed to achieve 3 % overall accuracy (over Load/Line/Temp).

## Applications

## Quick Reference

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