

## Features

- BandGap Low power reference
- Very low IQ: 15 uA
- +/- 0.5% Accuracy
- Excellent line regulation (< 20 uV/V)
- Ultra-high PSRR: 90 dB @ 20kHz; 80 dB @ 100 kHz; 60 dB @ 1MHz
- Very Low Noise: 10 uVrms typical (10 Hz to 100 kHz)
- Fixed output voltage from 0.6 V to 1.5 V
- Large input range, from 1.8 V to 5.5 V
- Reference lock indicator

## Applications

## Applications Diagram

## General Description

**BandGap:** The SGC21300 is a very high PSRR, very low noise band gap voltage reference that provides a fixed voltage outputs from inputs between 1.8 V and 5.5 V. The architecture of the SGC21300 enables the reference to be operated at a very low quiescent current while still realizing excellent DC and PSRR characteristics. The core includes a bias current generator with multiple outputs and a reference lock detector. Trimming is available for increased initial accuracy and temperature compensation. It is specified from  $T_J = -40\text{ }^\circ\text{C}$  to  $+125\text{ }^\circ\text{C}$  and is designed to achieve  $\pm 0.5\%$  overall accuracy after trim (over Load/Line/Temp).

## Quick Reference

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