

SGC21547\_01\_GF\_22FDSOI

## LOW POWER RC OSCILLATOR

### Features

- Low power RC oscillator
- Ultra-low current consumption
- Built-in bias references
- Digital trim
- Fast start-up time
- Start-up monitor with reset generator
- Glitch-free power up and power down
- Large programming range, from 10MHz to 160MHz

### General Description

*SGC21547\_01\_GF\_22FDSOI* is a digitally controlled RC oscillator optimized for ultra-low power applications. Making use of a RC dependent oscillator topology, the *SGC21547\_01\_GF\_22FDSOI* offers ultra-low power consumption and high temperature stability. It is specified from  $T_j = -40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ , being optimized for 10MHz to 160MHz range.

### Applications

- IoT
- Hand held devices
- Wireless Power devices
- Battery powered stand-by devices

### Quick Reference

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
$V_{IN}$	Input Sup.	1.20	—	1.98	V
$V_{DVDD}$	Static DVDD	0.60	—	0.90	V
$V_{DVDD}$	Operation DVDD	0.70	—	0.90	V
$F_{CLK}$	Clock Range	10	—	160	MHz

### Applications Diagram