

COMMITMENT TO CUSTOMER SUCCESS SINCE 2008

PRODUCTORILINE
SGC24212\_01\_GF\_22FDSOI
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JTM / ADC

## **Features**

- · High resolution temperature and voltage measurement
- High noise immunity ( $\Delta\Sigma$  ADC)
- 0.18°C resolution
- Wide sensor range ( $\Delta Vbe$  and absolute voltage measurement modes)

## General Description

 $SGC24212\_01\_GF\_22FDSOI$  is an accurate compact high-resolution ADC for temperature or voltage monitoring. Due to its high accuracy, it has a wide range of applications ranging from predictive protection systems to temperature compensation of crystal oscillators. Making use of an advanced fully differential  $\Delta\Sigma$  ADC, the  $SGC24212\_01\_GF\_22FDSOI$  offers excellent repeatability and high PSRR. Additionally, due to its range of input gains, it is the suitable solution for any type of temperature or voltage measurement applications. Specified from Tj =  $-40^{\circ}$ C to  $+125^{\circ}$ C, it is designed to achieve 2.0% overall temperature accuracy.

## **Applications**

- In chip temperature monitoring
- · Battery monitoring
- General purpose ADC
- Crystal oscillator temperature curve compensation

## **Quick Reference**

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
V <sub>AVDD</sub>	Analog Sup.	1.50	-	1.98	V
V <sub>DVDD</sub>	Digital Sup.	0.60	-	0.90	V
F <sub>CLK</sub>	ΔΣ Freq.	0.50	1.00	1.50	MHz