

SGC24300\_01\_TSMC\_CM018MG

## TEMPERATURE MEASUREMENT DIODE

### Features

- Diode for temperature measurement

### General Description

*SGC24300\_01\_TSMC\_CM018MG* is a silicon diode macro designed for temperature measurement. Designed for direct usage with *SGC242xx* compact temperature measurement ADC IP, it is specified from  $T_J = -40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ . The combination of *SGC24300\_01\_TSMC\_CM018MG* with *SGC242xx* can be found as an isolated solution for integration or integrated into PMUs (as for example in *SGCPMU\_01\_TSMC\_CM018MG*).

### Applications

- In chip temperature measurement

### Quick Reference

SYMBOL	DESCRIPTION	MIN	TYP	MAX	UNIT
$V_{\text{SYS}}$	Analog Sup.	2.4	—	5.4	V
$T_{\text{SET}}$	Settling time	—	—	0.5	$\mu\text{s}$
Temp	Temp Range	-40	—	125	$^{\circ}\text{C}$

### Applications Diagram

