SIVI-LDO1806C



TSMC 180nm-G (1P5M)

MAIN FEATURES

- Designed on TSMC180nm GenericProcess
- Supply a load current up to 6mA
- Input voltage range from 3.6V to 2V
- Output Voltage is 1.2V
- Low Quiescent current
- Operation
 Temperature -40C° to
 125 C°

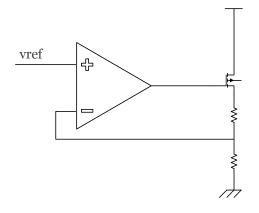
IP DESCRIPTION

SiVi-LDO1806C is a voltage regulator with low quiescent current while supplying a load current up to 80mA. The regulator needs an external capacitor of 100nA but the design is independent on the ESR for stability. High supply rejection ratio is provided

ELECTRICAL SPECIFICATIONS

Spec / Result		Min	Тур	Max	Unit
Supply Voltage		2	3.3	3.6	V
Temperature Range		-40	27	125	°C
Output Voltage			1.8		V
Output Voltage Accuracy		-3		3	%
Load Current				6	mA
PSRR	@1kHz		-35		dB
	@1MHz		-15		
Quiescent Current			50		uA
External Cap		0.1			uF

PIN DESCRIPTION



 $SiVi\text{-}LDO1806C\ Block\ Diagram$

Pin Name	Direction	Description	
vdd	Input	Analog supply rail	
VSS	Input	Analog ground rail	
Iref_10uA	Input	10uA Bandgap current internally referred for reference generation	
LDO_pd	Input Power down signal for the LDO		
vout	Output Output voltage for the LDO		

