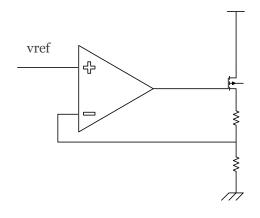
SIVI-LDO1010

Silicon Vision

TSMC 65nm-G (1P5M)

MAIN FEATURES

- Designed on TSMC65nm Generic Process
- Supply a load current up to 10mA
- Input voltage ranges from 1.8V to 1.3V
- Output Voltage is 1.0V
- Low Quiescent current



SiVi-LDO1010 Block Diagram

IP DESCRIPTION

SiVi-LDO1010 is a voltage regulator with low quiescent current while supplying a load current up to 10mA. The regulator is fully integrated with no need of any external components. High supply rejection ratio is provided with super noise performance is provided which is required by clock generators, ADCs and other noise sensitive analog blocks.

SiVi-LDO1010 is silicon proven on TSMC – 60nm Generic technology.

ELECTRICAL SPECIFICATIONS

Spec / Result		Min	Тур	Max	Unit
Supply Voltage		1.3		1.8	V
Temperature Range		-40	27	125	°C
Output Voltage			1.0		V
Output Voltage Accuracy		-3		3	%
Load Current				10	mA
PSRR	@1kHz		-30		dB
	@1MHz		-7		
Quiescent Current				10	uA
Spot noise @100kHz				100	nV/√Hz

PIN DESCRIPTION

Pin Name	Direction	Description	
vdd	Input	Analog supply rail	
VSS	Input	Analog ground rail	
Iref_5uA	Input	5uA Bandgap current internally referred for reference generation	
LDO_pd	Input	Power down signal for the LDO	
vout	Output	Output voltage for the LDO	

