SIVI-POR13001

TSMC 130nm-G (1P5M)

Silicon Vision
Innovative IC Solutions

MAIN FEATURES

- Designed on TSMC 130nm Generic Process

- Ability to work from a 2.6V supply to 3.6V

- Long and stable Reset Pulse

- Ultra-low steady state current

- Optional Brown out detection feature

IP DESCRIPTION

SiVi-POR13001 is a Power on Reset IP with an optional Brown out detection. The POR can operate from supply voltage ranges from 2.6V up to 3.6V. The threshold is adjusted to mid supply. Long and stable active low reset pulse is provided. SiVi-POR13001 is silicon proven on TSMC 130nm.

ELECTRICAL SPECIFICATIONS

Spec / Result	Min	Typ	Max	Unit
Supply Voltage	2.6	3.3	3.6	V
Temperature Range	-40	27	125	°C
Supply ramp	0.001		100	ms
Trigger Voltage		Vdd/2		V
Steady State Current		30		pA
Reset Duration	0.5			ms

PIN DESCRIPTION

Pin Name	Direction	Description
vdd	Input	Analog supply rail
vss	Input	Analog ground rail
ResetN	Output	Active low reset pulse
BO_en	Input	Enable pin for an optional Brown out detection feature
vref	Input	Reference voltage to set the brown out trigger voltage