

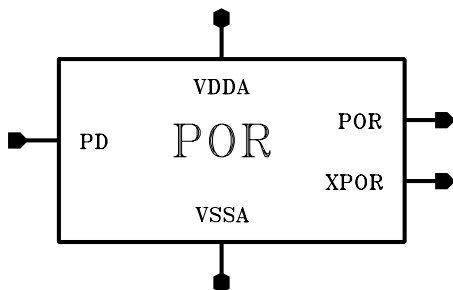
Process

C35 (0.35 μ m)

Key Features

- Small Area 0.0043 mm²
- Size x = 66 μ m, y = 66 μ m
- Supply Voltage 3.0 to 3.6V
- Temperature Range -40 to 125°C
- Power Down Mode

Symbol



Description

The POR is a Power on Reset cell with typically 140mV hysteresis.

Please Note: A high signal on PD input sets the POR circuit into power down mode and sets the POR signal to high. If no PD input is needed use a logic0 cell to force the PD input to low.

Please Note: The POR does not replace Power Supply Supervision Circuits!

Pinlist

Pin	Description	Type
POR	Power on Reset	Analog
XPOR	Power on Reset not	Analog
PD	Power Down (+ Reset)	Digital
VDDA	Positive Analog Supply Voltage	Supply
VSSA	Negative Analog Supply Voltage	Supply

TECHNICAL DATA FOR 3.3V SUPPLY(T_{junction} = -40 to 125°C, VDDA=+3.0V to +3.6V, unless otherwise specified)**GENERAL PARAMETERS**

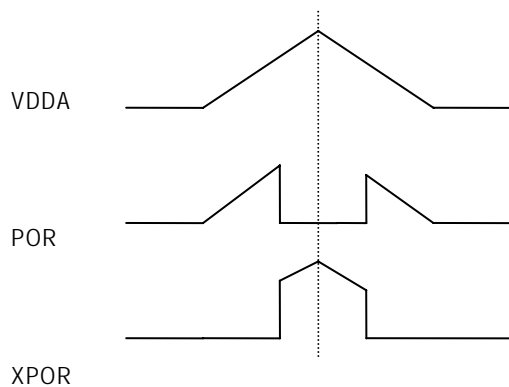
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T _{junction}	Junction Temperature		-40	27	125	°C
X	x – Size of macro cell			66		µm
Y	y – Size of macro cell			66		µm

OUTPUT PARAMETERS

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
V _{on}	On Voltage		1.24	2.26	2.82	V
V _{off}	Off Voltage		1.13	2.12	2.67	V
T _{pwmin}	Minimum Pulse Width of POR		2			µs

POWER REQUIREMENTS

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
VDDA	Pos. Analog Supply Voltage		3.0	3.3	3.6	V
VSSA	Neg. Analog Supply Voltage		0	0	0	V
IDDA	Supply Current Analog			4.2	8.6	µA
P _{diss_tot}	Total Power Consumption			14	31	µW
P _{diss_pd}	Total Power Consumption Power Down Mode				106	nW

WAVEFORMS

XPOR can be used to drive the RN terminal of the standard library flip-flops.

Contact

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