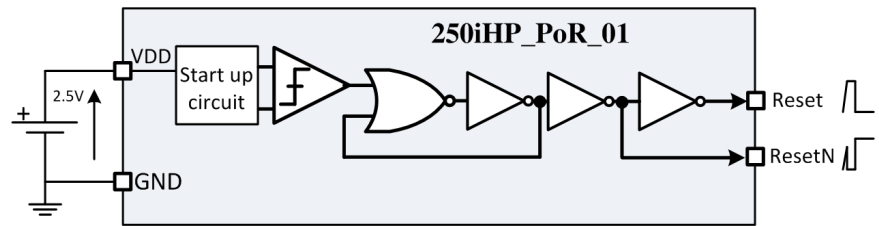


## Power-on Reset

### OVERVIEW

IP 250iHP\_PoR\_01 is power-on reset unit which produces a reset signal after rising supply voltage to produce the initial state of the triggers. The block consists of voltage detector, power on reset and digital cell NOR2. The voltage detector is a comparator that compares input voltage with reference voltage.



IP technology: iHP sg25H4.

IP status: pre-silicon verification.

Layout dimensions: 0.055x0.034mm.

Total area: 0.002 mm<sup>2</sup>.

### ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Conditions	Value			Unit
			min	typ.	max	
Junction Temperature	$T_J$	-	0	50	+100	°C
Supply Voltage	$V_{DD}$	-	2.38	2.50	2.62	V
Threshold value	$V_{TH}$	-	1.65	1.8	2.1	V
Power on Reset Delay	$T_{DL}$	$C_{LOAD} = 20pF$	4.5	-	8	us
Current Consumption	$I_{DD}$	-	-	-	1	uA
Output logic high level	$V_{OH}$	$I_{LOAD} = 100uA$	$V_{DD}-0.25$	-	-	V
Output logic low level	$V_{OL}$		0	-	0.25	V