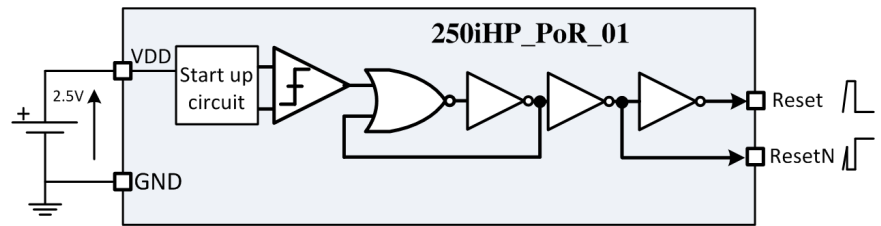


Power-on Reset*
OVERVIEW

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 mm².

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

* For further information about this product, please e-mail to sales@ntlab.com