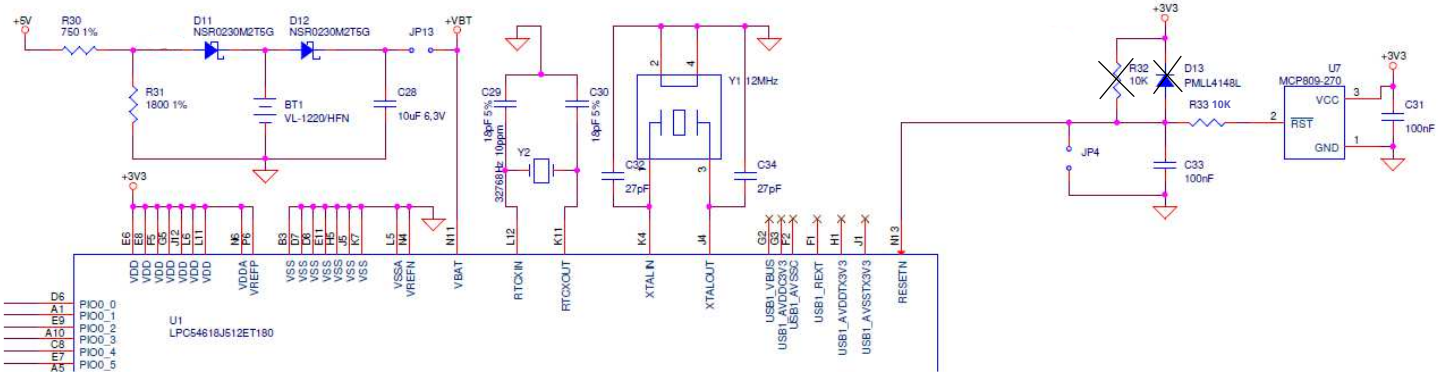

Table 18. Static characteristics: Power consumption in deep power-down mode

T_{amb} = −40 °C to +105 °C, unless otherwise specified, 2.7 V ≤ V_{DD} ≤ 3.6 V.

Symbol	Parameter	Conditions		Min	Typ[1][2]	Max	Unit
I_{BAT}	battery supply current	deep power-down mode; RTC oscillator running with external crystal					
		VDD = VDDA= VREFP = 3.3 V, VBAT = 3.0 V		-	0	-	nA
		VDD = VDDA= VREFP = 0 V or tied to ground, VBAT = 3.0 V		-	340[3]	-	nA

[1] Typical ratings are not guaranteed. Typical values listed are at room temperature (25 °C).

[2] Characterized through bench measurements using typical samples.

[3] If VBAT> VDD, the external reset pin must be floating to prevent high VBAT leakage.

How can I left RESET pin floating ?!?!

Test Conditions:

- No power supply (VDD=VDDA=VREFP=0V
- Battery fully charged
- Battery type: Rechargeable - Panasonic VL-1220 - 7mA/h

Start Test:

30 April 2020 - hour 17:00

VBAT = 3,334V

End Test

04 May 2020 - hour 07:30

VBAT = 2,981 V

Days calculated in these conditions: 13

With datasheet conditions @ 340nA consumption, days would be more than 800.

I tried to disconnect R33, leaving RESET pin floating, but without differences.