

**TABLE 1—TYPICAL TPMS CURRENT CONSUMPTION**

<b>Function</b>	<b>Battery use per event</b>
Pressure sensing	225 nA/sec
Temperature sensing	60 nA/sec
Voltage sensing	60 nA/sec
A/D conversion	48 nA/sec
Data processing	8 nA/instruction
Wake-up	53 mA/hour in 10 years
RF transmitting	60 to 100 $\mu$ A/sec
Nonvolatile memory	0.2 nA/sec/bit
Low-frequency receiving	100 nA/sec per event to 440 mA/hour in 10 years
Overtemperature switching	10 nA/sec
Power management	100 nA/sec per event to 90 mA/hour in 10 years
Silicon leakage	9 mA/hour in 10 years