XC6136 Series Ultra-low Power "88nA" Voltage Detector With High Accuracy Detection

∎∛∍



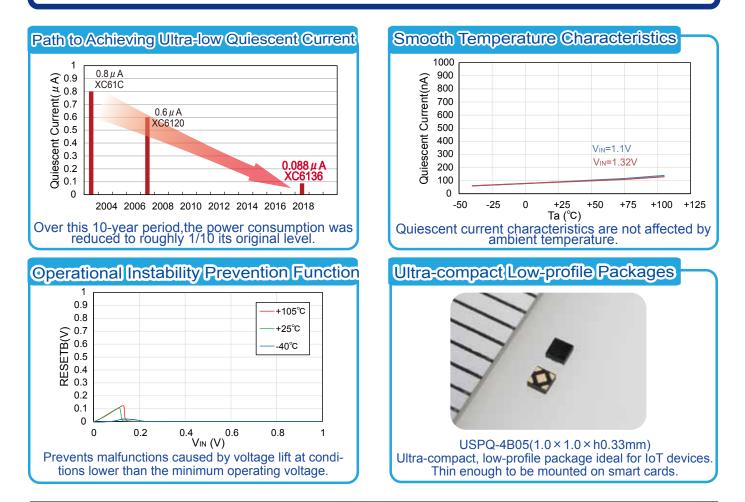
Wearable Device E

SALES POINT

Nano Power Consumption High Accuracy Eetection Small Package !

Quiescent current of 88nA, among the lowest in the world!

- Ideal for IoT/energy harvesting applications, with ultra-low consumption in a compact package.
- High-precision detection and smooth, low-quiescent current temperature characteristics.
- Functions to prevent unstable operation are enhanced by the inclusion of UVLO (CMOS products).



FEATURES			
Ultra-Low Power	88nA TYP. (Released VDF=1.2V, VIN=1.32V)	Detect Voltage Range	1.2V~5.0V (0.1VStep)
	91nA TYP. (Detection VDF=1.2V, VIN=1.1V)	Operating Voltage Range	1.1V~6.0V
High Accuracy	±0.8% (V _{DF} ≦3.0V, Ta=25°C)	Output Configuration	CMOS or Nch Open Drain
	±1.0% (3.1V≦V _{DF} , Ta=25°C)	Output logic	H level or L level at Detection
	±2.5% (V _{DF} ≦3.0V, Ta=-40°C~+105°C)	Undefined Operation	Output Pin Voltage 0.38V (MAX: Ta=-40~+105°C)
	±2.7% (3.1V≦V _{DF} , Ta=-40°C~+105°C)	Protect(CMOS)	@Input Pin Voltage <minimum operation="" p="" voltage<=""></minimum>
Temperature Characteris-	±50ppm/°C	Packages	USPQ-4B05, SSOT-24, SOT-25
Hysteresis Width	TYPE A/C V _{DF} × 5.0% (TYP.), TYPE B/D 2~28mV (TYP.)	Environmentally Friendly	EU RoHS, Pb Free, H&A Free

