

New High-Performance Low-Power Turnkey Pedometer Solution with Embedded Functionality

Built in step detection and counter functions deliver unmatched power consumption in an ultra-compact form factor



ROHM Group company Kionix, Inc., a leader in the design and manufacture of MEMS solutions, has added embedded functionality to its line of high-performance accelerometers. The new [KX126](#) tri-axis accelerometer integrates a step detector and step counter.

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New 13-Cell Li-Ion Battery Monitoring LSI Optimized for the Rapidly Expanding LEV Market

Contributes to improved safety, greater reliability, and shorter development time for Li-ion battery packs.



The [ML5245](#) is a standalone type that does not require control by a microcontroller. This has eliminated the need to develop specialized MCU

programs requiring considerable expertise and man-hours, and has resulted in the simplification of battery pack development, leading to the reduction of customer's product development time.

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TechWeb Information



Reliability of SiC Schottky Barrier Diodes

Reliability Tests

When evaluating semiconductor devices, in addition to the electrical and mechanical specifications and performance, reliability is another important factor. In particular, power devices are intended to handle large amounts of power, and so must attain satisfactory reliability.

Because SiC does not have a long history as a semiconductor material, and because it does not have much of a track record compared with Si power devices, there may not be much awareness of the level of its reliability....

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Selection of Inductors and Capacitors for DC/DC Converters

Selection of Input Capacitors

The following three parameters are important when selecting the input capacitor.

- 1) Rated voltage
 - 2) Rated ripple current and ripple heat generation characteristics
 - 3) When using a ceramic capacitor: temperature characteristic and DC bias characteristic
- Moreover, the following should be born in mind as premises for selection....

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Catalog Download

Sensor Catalog Vol.2.3



ROHM's broad portfolio of products includes motion sensors that can accurately detect position and movement, environmental sensors offering real-time detection of ambient conditions, interface devices optimized for amplifying/ processing/ analyzing sensor signals, MCUs for controlling multiple sensors, and short-range wireless communication ICs and modules.

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