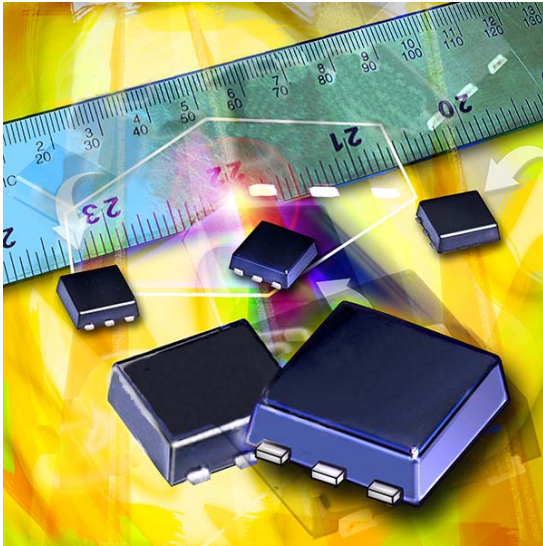


# SII



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## SII'S LITHIUM-ION RECHARGEABLE BATTERY PROTECTION ICs: S-8205A/B, S-8211E & S-8215A SERIES



SII's lithium-ion rechargeable battery protection ICs protect lithium-ion battery packs from overcharge, over-discharge and over-current. High-accuracy voltage detectors and delay circuits are included.

The S-8205A/B and S-8211E Series feature a high accuracy voltage detection circuit and a delay circuit, making it possible for users to monitor the status of a 1 cell (S-8211E) or 4/5 (S-8205A/B) cell lithium-ion rechargeable battery pack.

Suitable for secondary protection of lithium-ion rechargeable batteries, the S-8215A Series can accommodate series connection of 4 or 5 cells.

	S-8205A/B SERIES	S-8211E SERIES	S-8215A SERIES
<b>WIDE RANGE OF OPERATION VOLTAGE</b>	2 V to 24 V	1.5 V to 8 V	3.6 V to 26 V
<b>LOW CURRENT CONSUMPTION</b>	Operation mode 40 $\mu$ A max. (+25°C)	Operation mode 3.0 $\mu$ A typ., 5.5 $\mu$ A max. (+25°C)	At VCU <sub>n</sub> – 1.0 V for each cell 3.0 $\mu$ A max. (+25°C)
	Power-down mode 0.1 $\mu$ A max. (+25°C)	Over discharge mode 2.0 $\mu$ A typ., 3.5 $\mu$ A max. (+25°C)	At 2.3 V for each cell 1.7 $\mu$ A max. (+25°C)
<b>PACKAGE(S)</b>	16-PIN TSSOP	SOT-23-5 SNT-6A	TMSOP-8 SNT-8A
<b>PRICING IN QUANTITIES OF 10,000</b>	\$1.64 EA	\$0.33 EA	\$0.83 EA

Lead-free (Sn 100%), halogen-free

### About Seiko Instruments:

Seiko Instruments' semiconductor technology originated with the integrated circuits used in Seiko watches, which required ultra-low power consumption coupled with precision performance, high processing accuracy, and top quality.

Seiko Instruments has since adapted the basic CMOS technology to create a line of standard products for energy management and conservation. These ICs feature the lowest current consumption available to provide the longest battery life or the most energy-efficient operation for line operated equipment.

Seiko Instruments is totally committed to providing the highest quality semiconductors to enhance the value of its customers' end products. Seiko Instruments' IC products include: Switching Regulators, Voltage Detectors, Single Gate Logic ASSPs, Low Drop Out (LDO) Voltage Regulators, Real Time clocks, Temperature Sensors, Low Voltage EEPROMs, Operational Amplifiers, Comparators, Charge Pumps, and Lithium-Ion Battery Protection ICs.