

PRESS RELEASE

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XC6801/XC6802 series ICs for Constant Voltage/Constant Current Single-cell Lithium-ion Battery Charging Control

TOREX SEMICONDUCTOR LTD. (Chuo-Ku, Tokyo: President, Tomoyuki Fujisaka) announces the release of the XC6801/XC6802 series of ICs for single-cell lithium-ion battery charging control.

The XC6801/XC6802 series of control ICs is ideal for chargers of single-cell lithium-ion batteries used in various types of portable devices. The use of lithium-ion batteries has increased in recent years as portable devices have become smaller, lighter, and are used for longer battery life. We have developed a lithium-ion battery charging control IC that achieves a high-precision charging current and charging voltage, as well as safety and efficiency. The XC6801 series allows selection of 100 mA (MAX.) or 500 mA (MAX.) for the charging current, and is ideal for applications that charge from USB. The XC6802 series allows the charging current to be freely set by means of an external resistor RSEN (maximum charging current of 800 mA), and thus this flexible series supports charging of a wide variety of applications. The XC6801/XC6802 also provide over current protection and thermal shutdown protection. Inrush current restriction is also provided, enabling a safe and stable charging supply. During trickle charging, both series supply only one-tenth the set charging current to the battery, providing excellent safety. Application of the small USP-6C package (1.8 x 2.0 x 0.6 mm) with excellent heat dissipation properties-they also help conserve space in circuit design.

【XC6801/XC6802 Series Features】

4.25 V to 6.0 V operating voltage range

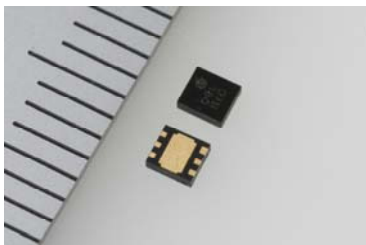
Supply current of 12 μ A (XC6801 series) or 15 μ A (XC6802 series)

An internally fixed charging current of 100 mA or 500 mA can be selected (XC6801 series), or the charging current can be freely set (XC6802 series, MAX. 800 mA).

Automatic recharging function

- Includes a charging status output pin.

High density mounting possible with USP-6C Package (1.8 x 2.0 x 0.6 mm)



▲ USP-6C (1.8mm x 2.0mm x 0.6mm MAX.)

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