

MA5889

USB Fast Charging Controller

Description

With Smartphones and Tablets emerging as the mainstream portable mobile devices, the demand for universal charging (fast charging) to various mobile devices has increased dramatically.

The MA5889 is a USB fast-charging controller that complies with the USB Battery Charging Specification (BC) version 1.2 and allows charging devices to draw current similar to original wall-chargers. Normally, a USB wall-charger provides unified charging mechanism by traditional USB current supply (0.5A) when charging devices through USB ports. With a USB enabled wall-charger that complies with USB BC, it provides a unified charging mechanism with more USB current supply (up to 1.5A); so called “fast-charging” mechanism; when charging devices through USB ports. The MA5889 is a high performance battery charging solution with “fast-charging” mechanism to speed up the charging time.

The MA5889 embedded automatic charger detection circuit complies with both USB Battery Charging Specification (BC) version 1.2 and Apple/Samsung Tab resistor mode. This feature implies MA5889 supports wide ranges of Smartphone/Tablets for fast charging and provides design flexibility for system manufacturers.

The MA5889 is designed for all charger products with USB interface and provides SOT23-6 package for dual USB port support.

Features

- ✓ Supports USB Battery Charging Specification 1.2 (BC1.2 Charging Spec)
- ✓ Supports Apple® Device fast charging (Selectable Apple® 1A / 2.4A mode)
- ✓ Supports Samsung Galaxy Tab Devices charging (2.1A mode)
- ✓ Supports Chinese Telecommunications Industry Standard YD/T 1591-2009
- ✓ Automatic charging detection circuit for Apple, Samsung, and BC compliant devices
- ✓ Ultra-low power consumption
- ✓ MCU base design for fast technical support
- ✓ Available in SOT23-5 package for MA5887 (single USB port)

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- ✓ Available in SOT23-6 package for MA5889 (dual USB port)

Application:

- ✓ USB universal wall-charger
- ✓ USB universal car-charger
- ✓ Travel adapter
- ✓ Power bank supply

Package

SOT23-6

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