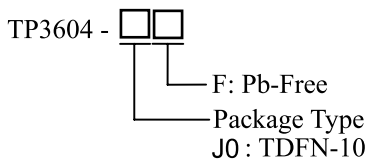


2.1A Synchronous Current Boost DC/DC Regulator

General Description

The TP3604 is high efficiency Synchronous Boost DC/DC Converter, fixed frequency, current-mode step-up converter with output to input disconnect. A PWM step-up DC/DC converters optimized to provide a high efficiency solution to medium power system. Its PWM circuitry with built-in 2.1A@250mΩ power mosfet makes this converter highly power efficiently. Selectable high switching frequency allows faster loop response and easy filtering with a low noise output. The non-inverting input its error amplifier is connected to an internal 0.5V precision reference voltage. Soft-start time can be programmed with an external capacitor, which sets the input current ramp rate. Current mode control and external compensation network make it easy and flexible to stabilize the system. the devices regulates the output voltage up to 5V from either a 2cell NiMH/NiCd or a single-cell Li-ion Battery with a 500KHz fixed frequency switching. These features minimize overall solution footprint by allowing the use of tiny, low profile inductors and ceramic capacitors.

Ordering Information



Features

- Up to 94% efficiency
- Shut-down current:<1uA
- Output voltage Up to 5V
- 500KHz fixed frequency switching
- High switch on current:2.1A@250mΩ
- Available in TDFN-10 Package

Applications

- Battery products
- Host Products
- Motor Power Devices

Marking Information

For marking information,contact our sales representative directly or through a TPmicro distributor located in your area.

Pin Configurations

