

## Single Inductor, 5A Battery Charger with 3A USB OTG, 0.1us True OVP

### DESCRIPTION

ETA6986 is a switching Li-Ion battery charger capable of delivering up to 5A of charging current to the battery and also capable of delivering up to 3A in boost OTG operation. It employs a charge pump to achieve a very fast input OVP, a For charging, it uses a proprietary control scheme that eliminates the current sense resistor for constant current control, thereby improving efficiency and reducing costs. It can also output a 5V voltage in the reversed direction by boosting from the battery. Therefore, it only needs a single inductor to provide power bi-directionally. ETA6986 is truly an ideal solution controlled by MCU for battery charging and discharge applications, such as power banks, smart phones, and tablets with only one USB port that can be used for both charging battery and USB OTG function.

ETA6986 is in a tiny QFN3x3-20 package.

### FEATURES

- ◆ Bi-Directional Power conversion with Single Inductor
- ◆ Input OVP with 0.1us reaction time
- ◆ Input standoff voltage up to 20V
- ◆ Switching Charger up to 5A
- ◆ 5V Synchronous Boost up to 3A
- ◆ Up to 95% Efficiency
- ◆ NTC thermistor input

### APPLICATIONS

- ◆ Power Bank
- ◆ Smart Phone / Tablet, MID

### ORDERING INFORMATION

PART	PACKAGE	TOP MARK
ETA6986F3W	QFN3x3-20	ETA6986 YWW2L

### TYPICAL APPLICATION

