

Single Inductor, 3A Switch Mode Battery Charger with 2.5A USB OTG

DESCRIPTION

ETA6085 is a switching Li-Ion battery charger capable of delivering up to 3A of charging current to the battery and also capable of delivering up to 2.5A in boost OTG operation, with extremely high efficiency in both charging mode and OTG mode. For charging, it uses a proprietary control scheme that eliminates the current sense resistor for conventional constant current control, maximizing efficiency, reducing charging time and reducing costs. It can also output a 5V voltage in the reversed direction by boosting from the battery. It only needs a single inductor to provide power bi-directionally. ETA6085 is truly an ideal all-in-one solution 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.

ETA6085 is suitable for charging a 4.2V Li-ion battery.

ETA6085 is in QFN3x3-20 FC package.

FEATURES

- ◆ Bi-Directional Power conversion with Single Inductor
- ◆ Switching Charger
- ◆ 5V Synchronous Boost
- ◆ Up to 95% Efficiency
- ◆ Up to 3A Max charging current and 2.5A discharging
- ◆ No-Battery detection
- ◆ No External Sense resistor
- ◆ NTC thermistor input

APPLICATIONS

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

ORDERING INFORMATION

PART	PACKAGE	TOP MARK
ETA6085F3W	QFN3x3-20	ETA6085 YWW2L

TYPICAL APPLICATION

