

OZ522

FEATURES

Charger

- 550KHz switching mode charger for 1 – 4 cell LiIon or LiPolymer batteries
- Supports fast charge mode
- Wake up charging function for discharged batteries
- Built-in charge termination function
- Internal safety timer for charger
- 92% efficiency
- Automatic battery recharge
- 1% constant voltage accuracy
- Charge status indication by LED
- Battery absence detection

DC/DC Converters

- Two switch mode buck converters with under-voltage protection
- 2% voltage accuracy
- Output protection:
 - Over-current for each DC/DC converter
 - Over-voltage lockout on adapter voltage
 - Under-voltage lockout on battery voltage
- Output voltage range of 1.0V to 5.5V
- Integrated soft start function, 4ms soft start function at start-up
- ON/OFF control pin

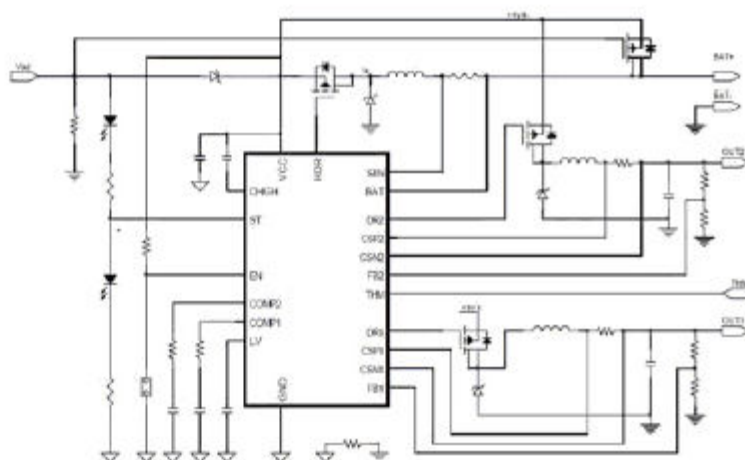
GENERAL DESCRIPTION

The OZ522 provides a complete charging algorithm to control 1 – 4 cell LiIon batteries, used in Portable DVD (PDVD), and other portable electronic equipment. It delivers a wake-up charging current for discharged batteries followed by a fast charging current to minimize the charging time, and keeps the battery regulation voltage with 1% accuracy. A battery temperature sensing scheme allows the battery to be charged within a user-defined temperature range. The switch mode charger allows use of low AC adapter voltage at high efficiency.

APPLICATIONS

- PDVD

APPLICATION DIAGRAM



U.S. Patent #7,268,520; and more patents pending.