General Description

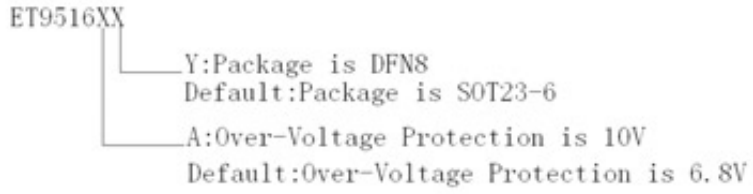
The ET9516/A provides complete Li+ charger protection against Input over-voltage, input over-current and overtemperature. When any of the monitored parameters is over the threshold, the IC turns off the charging current. All protections also have deglitch time against false triggering due to voltage spikes or current transients. When ACIN voltage exceeds OVP threshold, the device will turn off charging current. The charging current is controlled by the GATDRV pin. When sourcing a current from the GATDRV pin, the OUT pin delivers the charging current which is 200-fold magnified in amplitude based on GATDRV's current.

Other features include accurate Voltage divider, reverse current blocking from OUT to ACIN and OTP protection. The ET9516/A provides complete Li+ charger protections, and saves the external MOSFET and Schottky diode for the charger of cell phone's PMIC. The above features and small package make the ET9516/A an ideal part for cell phones applications.

Features

- Provide Input Over-voltage Protection
- Provide Input Over-current Protection
- Provide Over Temperature Protection
- Provide Reverse Current Blocking
- High Immunity of False Triggering
- High Accuracy Protection Threshold
- Low On Resistance 0.8W Max
- Available in TDFN2x2-8, TSOT-23-6
- Lead Free and Green Devices Available (RoHS Compliant)

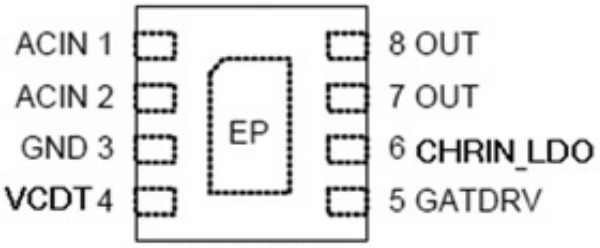
Production version



Application

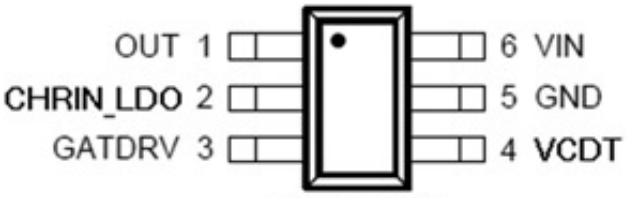
- Cell Phones

Pin Configuration



TDFN2x2-8
(Top View)

EP = Exposed Pad (connected to ground plane for better heat dissipation)



TSOT-23-6A