# Unidirectional and Bidirectional configurable 20V Over-Voltage Protector

## DESCRIPTION

ETA7011 is an innovative over voltage protector which can be used either in unidirectional or bidirectional mode, by only change the external connecting. In bidirectional mode, the switch integrated in ETA7011 can shut off with the reverse blocking function, no body diode anymore.

ETA7011 consists of a charge pump, a configurable power MOSFET, a voltage reference, a gate driver and some logics and protection modules. ETA7011 can react to a input surge very fast and shut off the switch in 0.5us and stand the voltage spike as high as 20V.

ETA7011 is in SOT23-6 package.

## FEATURES

- Unidirectional and Bidirectional configurable
- Input OVP with 0.1us reaction time
- Input standoff voltage up to 20V
- 10mohm Rdson in Unidirectional mode
- 40mohm Rdson in Bidirectional mode
- Protection voltage programmable by Vfb=1.26V
- SCP and OTP

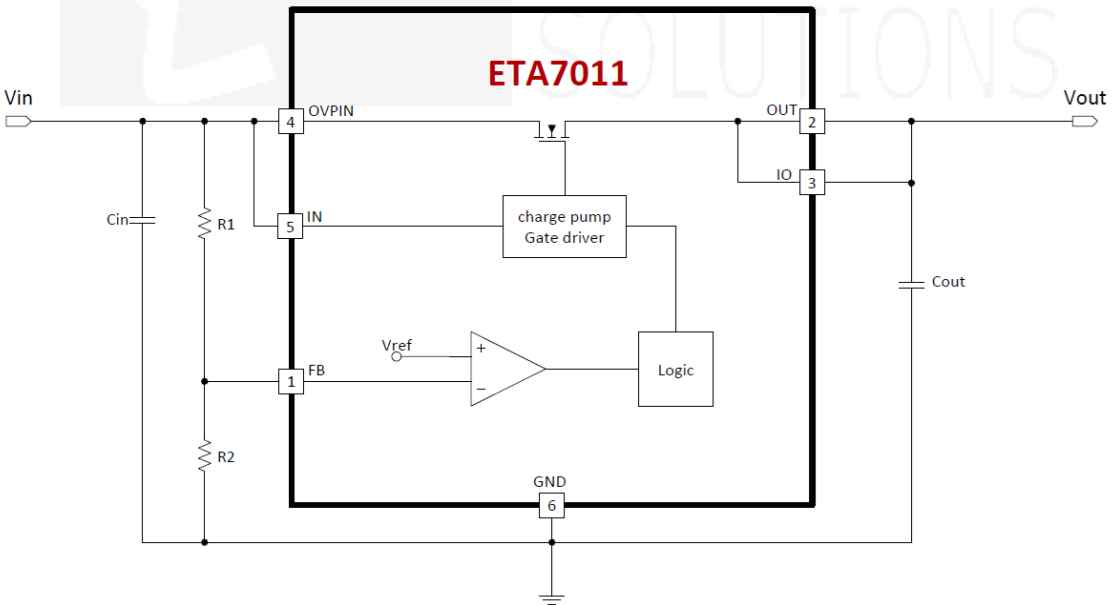
## APPLICATIONS

- All electronic devices with input DC power plug

## ORDERING INFORMATION

| PART | PACKAGE | TOP MARK |
|---|---|---|
| ETA7011S2G | SOT23-6 | MZYW (YW: date code) |

## TYPICAL APPLICATION




$$Vovp\ (V) = 1.26 \times \frac{R1 + R2}{R2}$$

Typical application circuit in unidirectional mode