

#### 40V, 200mA, Low quiescent current, Voltage Linear Regulator

#### **Description**

# Datasheet brierf Kov

PRELIMINARY DATASHEET

## The FH68401 series are a group of low-dropout (LDO)

voltage regulators offering the benefits of wide input voltage range, low dropout voltage, low power consumption, and miniaturized packaging.

Quiescent current of only 2.0µA makes these devices ideal for powering the battery-powered, always-on systems that require very little idle-state power dissipation to a longer service life. There is a shutdown mode by pulling the EN pin low. The shutdown current in this mode goes down to only 100nA(typ.).

The FH68401 series of linear regulators are stable with the ceramic output capacitor over its wide input range from  $2.5V \sim 40V$  and the entire range of output load current  $(0mA \sim 200mA)$ .

### **Typical Application Circuits**

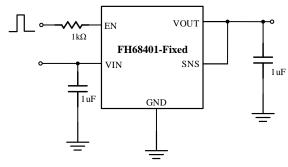
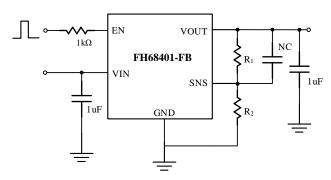


Figure 1. Application circuit of Fixed VOUT with enable and sense functions



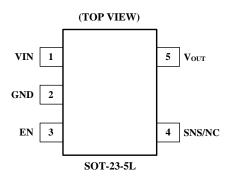
Notes :  $V_{OUT} = (R_1 + R_2) / R_2 \times 1.8V$ , and  $R_2 < 36K\Omega$ .

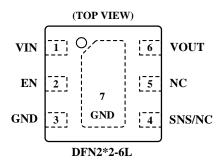
Figure 2. Adjustable output voltage application circuit

#### **Key Features**

- Wide Operating Input Voltage Range: 2.5V to 40V
- Output Peak Current: 200mA(std)
- 2μA Ground Current at no Load
- Output Accuracy: ±1%
- 100nA Disable Current
- Dropout Voltage: 0.35V at 100mA / VOUT 5V
- Support Fixed Output Voltage 1.8V, 3.3V, 5V, 12V.
- Adjustable Output Voltage Available by Specific
- Stable with Ceramic or Tantalum Capacitor
- Current Limit Protection
- Over-Temperature Protection
- SOT-23-5L & DFN2\*2-6L Package Available

#### **Pin Configurations**





#### **Applications**

- Low Power Microcontrollers
- Audio/Video Equipment
- Car Navigation Systems
- Industrial Controls
- Home Automation
- Portable, Battery Powered Equipment
- Wireless Communication Equipment