

## 600mA LDO Linear Regulator with Shutdown

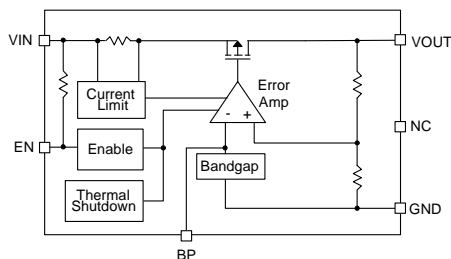
### ❖ GENERAL DESCRIPTION

The AX6607 is a low dropout, positive linear regulator with very low quiescent. It can supply 600mA output current. The BP pin with a 10nF bypass capacitor can help reduce the output noise level. The characteristics of low dropout voltage and less quiescent current make it good for some critical current application, for example, some battery powered devices. The typical quiescent current is approximately 50 $\mu$ A. In the shutdown mode, the maximum supply current is less than 2 $\mu$ A. The AX6607 regulator is able to operate with output capacitors as small as 1 $\mu$ F for stability. The AX6607 series are offering several fixed output voltage types including 1.5V, 1.8V, 2.5V, 2.6V, 2.7V, 2.8V, 3.0V, 3.3V and adjustable version. Built-in current-limit and thermal-shutdown functions prevent any fault condition from IC damage.

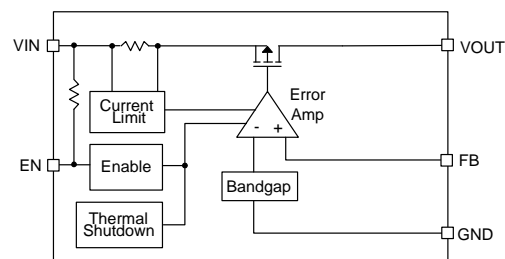
### ❖ FEATURES

- Input voltage range : 2.6V~5.5V
- Adjustable and 1.5/1.8/2.5/2.6/2.7/2.8/3.0/3.3V fixed output voltages
- VOUT adjust range from  $V_{FB}$  to 5.0V
- Guaranteed 600mA output current
- Very Low quiescent current at 50 $\mu$ A (typ.)
- Needs Only 1 $\mu$ F capacitor for Stability
- Maximum supply current in shutdown mode <2 $\mu$ A
- Current limit and thermal shutdown protection
- Short circuit current fold-back
- Available in the SOT23-5L/TSOT23-5L and TDFN-6L Pb-Free Packages

### ❖ BLOCK DIAGRAM



Fixed Version



Adjustable Version