

**300mA Low-Dropout Linear Regulators****Features**

- Low, 90 $\mu$ A No-Load Supply Current
- Guaranteed 300mA Output Current
- Dropout Voltage is 200mV @ 150mA Load
- Over-Temperature Protection and Short-Circuit Protection
- Two Modes of Operation ----
  - Fixed Mode: 1.5V~4.7V (interval =100mV)  
2.84V (G913A), 3.15V (G913B),  
4.75V (G913E),
  - Adjustable Mode: from 1.25V to 5.5V
- Max. Supply Current in Shutdown Mode < 1 $\mu$ A
- Low Output Noise at 220 $\mu$ V<sub>RMS</sub>
- Stable with low cost ceramic capacitors

**Applications**

- Notebook Computers
- Cellular Phones
- PDAs
- Digital still Camera and Video Recorders
- Hand-Held Devices
- Bar Code Scanners

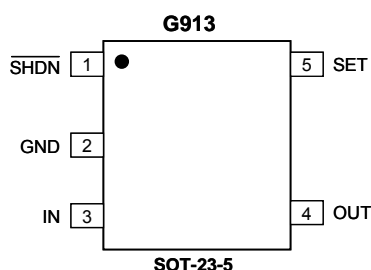
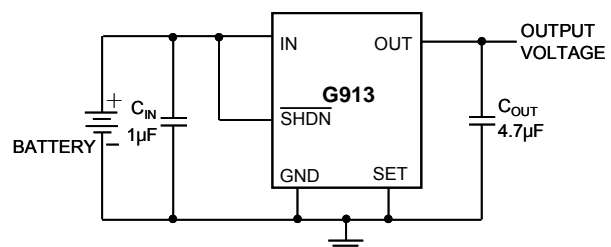
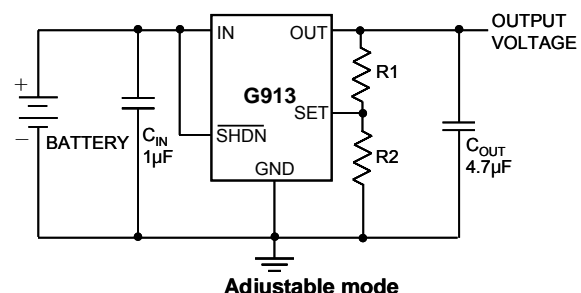
**General Description**

The G913 is a low supply current, low dropout linear regulator that comes in a space saving SOT-23-5 package. The supply current at no-load is 90 $\mu$ A. In the shutdown mode, the maximum supply current is less than 1 $\mu$ A. Operating voltage range of the G913 is from 2.5V to 5.5V. The over-current protection limit is set at 550mA typical. An over-temperature protection circuit is built-in in the G913 to prevent thermal overload. These power saving features make the G913 ideal for use in the battery-powered applications such as notebook computers, cellular phones, and PDA's.

The G913 has two modes of operation. When the SET pin is connected to ground, its output is a pre-set value: 1.5V~4.7V (interval =100mV), 2.84V, 3.15V, and 4.75V. There is no external component needed to decide the output voltage. When an output other than the preset value is needed, two external resistors should be used as a voltage divider. The output voltage is then decided by the resistor ratio. The G913 comes in a space saving SOT-23-5 package.

**Ordering Information**

ORDER NUMBER (Pb free/Green)	MARKING	VOLTAGE	TEMP. RANGE	PACKAGE
G913Af	3Axx	2.84	-40°C~+85°C	SOT-23-5
G913Bf	3Bxx	3.15	-40°C~+85°C	SOT-23-5
G913Cf	3Cxx	3.30	-40°C~+85°C	SOT-23-5
G913Df	3Dxx	3.00	-40°C~+85°C	SOT-23-5
G913Ef	3Exx	4.75	-40°C~+85°C	SOT-23-5

**Pin Configuration****Typical Application Circuit****Fixed mode****Adjustable mode**