High Input Voltage, High PSRR, Low Quiescent Current LDO Regulator

Features

- **Low Current Consumption , Typically 10μA**
- **Output Voltage Accuracy ±2.5%**
- **Output Adjusts from 1.24 to (V_{IN}-1)V**
- **Low Dropout Voltage of 320mV @ I_O = 30mA**
- **Stable with Ceramic or Tantalum Capacitors**
- **Wide Operating range : 5V ~ 24V**
- **Low Shutdown Current , Typically 1μA**
- **Good Line Regulation and Load Regulation Specifications**
- **Thermal Shutdown and Current Limit Protection Embedded**
- **SOT-23-5 and SOP-8 Package Available**

General Description

The G922 is a highly accurate, low dropout regulator with 100mA output driving capacity and ultra-low ground current. The G922 can work in a wide operation range from 5V up to 24V. The quiescent current is small even at high input voltage. The typical current consumption is about 10μA. It is stable with either ceramic or tantalum output capacitor, the minimum output capacitor is only 2.2μF required. It is very suitable for the battery-powered portable equipment, especially the keep-alive system. The G922 can provide the higher performance and a longer battery service life.

Applications

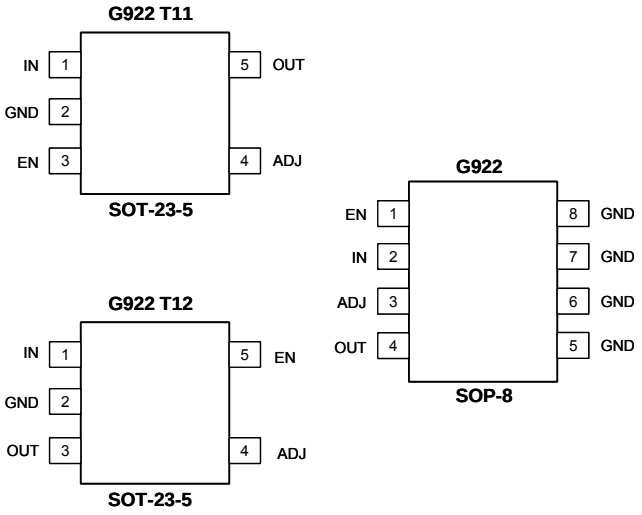
- **Keep-Alive Supply in Notebook and Portable Computers**
- **Logic Supply for High-Voltage Batteries**
- **Automotive Electronics**
- **Battery Powered Systems**
- **3-4 Cell Li-Ion Battery Input Range**

Ordering Information

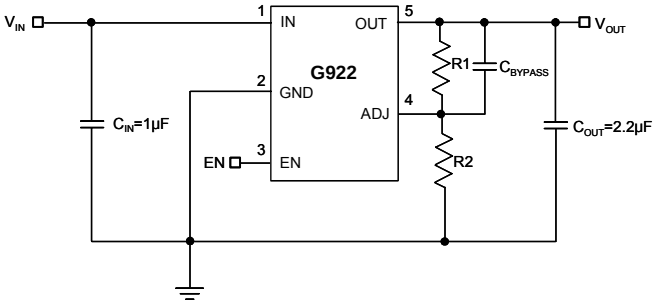
ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G922T11U	922Ax	-40°C to 85°C	SOT-23-5
G922T12U	922Bx	-40°C to 85°C	SOT-23-5
G922P11U	G922A	-40°C to 85°C	SOP-8

Note: T1: SOT-23-5 P1: SOP-8
1or 2: Bonding Code
U: Tape & Reel

Pin Configuration



Typical Application Circuit



Note: *R2(Feed back resistor) should be smaller than 300kΩ
**C_{BYPASS} is optional