

# 1.5A Low Dropout Regulator with Dual Input Voltage

### **Features**

- Adjustable Output Low to 0.8V
- Input Voltage as Low as 1.4V and VPP Voltage 5V
- 300mV Dropout @ 1.5A, VO 1.2V
- Over Current and Over Temperature Protection
- Low Reverse Leakage (Output to Input )
- Power MSOP-8 Packages
- ±2% Output Voltage
- 1.2V, 1.5V, 1.8V and 2.5V Options by Setting ADJ Pin Below 0.2V and Adjustable Externally Using Resistors
- VO Pull Low Resistance when Disable

### **Applications**

- Motherboards
- Peripheral Cards
- Network Cards
- Set Top Boxes
- Notebook Computers

### **General Description**

The G969A is a high performance positive voltage regulator designed for use in applications requiring very low Input voltage and very low dropout voltage at up to 1.5 amps. It operates with a  $V_{\text{IN}}$  as low as 1.4V and VPP voltage 5V with output voltage programmable as low as 0.8V. The G969A features ultra low dropout, ideal for applications where  $V_{\text{OUT}}$  is very close to  $V_{\text{IN}}$ . The G969A provides excellent regulation over variations in line, load and temperature. The G969A provides a power OK signal to indicate if the voltage level of VO reaches 92% of its rating value.

The G969A is available in the power MSOP-8 package. It is available with 1.2V, 1.5V, 1.8V and 2.5V internally preset outputs that are also adjustable using external resistors.

### **Ordering Information**

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G969A-12ADJP81U	969A-12	-40°C~+85°C	MSOP-8
G969A-15ADJP81U	969A-15	-40°C~+85°C	MSOP-8
G969A-18ADJP81U	969A-18	-40°C~+85°C	MSOP-8
G969A-25ADJP81U	969A-25	-40°C~+85°C	MSOP-8

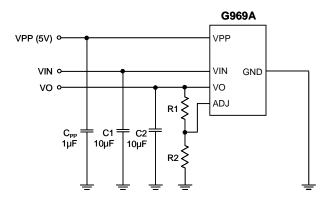
Note: P8: MSOP-8 1: Bonding Code U : Tape & Reel

e.g. 18 denotes the 1.8V output voltage

### **Pin Configuration**

# G969A N.C 1 8 GND VPP 2 7 GND VIN 3 6 GND VO 4 5 ADJ MSOP-8

## **Typical Application Circuit**



VO =  $\frac{0.8 \text{ (R1+R2)}}{\text{R2}}$  Volts R2<120kΩ is recommended