

5A Low Dropout Regulator with Enable

Features

- Adjustable Output Low to 0.8V
- Input Voltage as Low as 1.1V and VPP Voltage 5V
- 200mV Dropout @ 5A, VO 1.2V
- Over Current and Over Temperature Protection
- Enable Pin
- Low Reverse Leakage (Output to Input)
- Power SOP-8 (FD) Packages with Thermal Pad
- $\pm 2\%$ Output Voltage
- VO Power OK Signal
- VO Pull Low Resistance when Disable
- VO Soft Start when Enable

Applications

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

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G972F11U	G972	-40°C~+85°C	SOP-8 (FD)

Note: F1: SOP-8 (FD)

1: Bonding Code

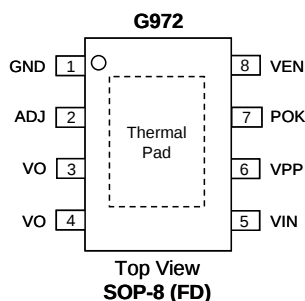
U: Tape & Reel

General Description

The G972 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 5 amps. It operates with VPP voltage 5V and output voltage programmable as low as 0.8V. The G972 features ultra low dropout, ideal for applications where V_{OUT} is very close to V_{IN} . Additionally, the G972 has an enable pin to further reduce power dissipation while shutdown. The G972 provides excellent regulation over variations in line, load and temperature. The G972 provides a power OK signal to indicate if the voltage level of VO reaches 92% of its rating value.

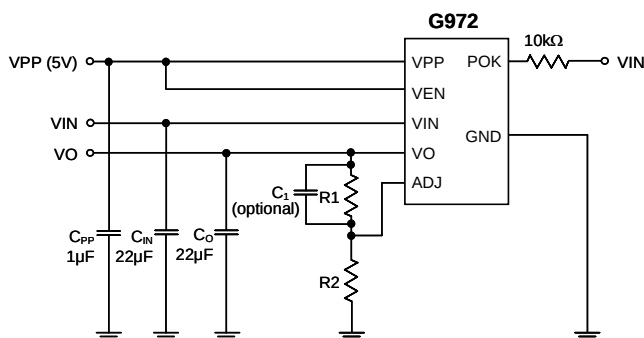
The G972 is available in the power SOP-8 (FD) package. It is adjustable using external resistors.

Pin Configuration



* Thermal Pad can be connected to VIN
 ** Connect Thermal Pad to ground plate will have better thermal performance

Typical Application Circuit



1. $VO = \frac{0.8 (R1+R2)}{R2}$ Volts, $R2 < 120k\Omega$ is recommended
2. C_1 is not necessary. VO is also stable if $C_1 = 22pF \sim 150pF$