

4A Low Dropout Regulator with Enable

Features

- Adjustable Output Low to 0.8V
- 330mV Dropout @ 4A, 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
- ±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

General Description

The G9731 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 4 amps. It operates with VPP voltage 5V and output voltage programmable as low as 0.8V. The G9731 features ultra low dropout, ideal for applications where V_{OUT} is very close to V_{IN} . Additionally, the G9731 has an enable pin to further reduce power dissipation while shutdown. The G9731 provides excellent regulation over variations in line, load and temperature. The G9731 provides a power OK signal to indicate if the voltage level of VO reaches 92% of its rating value.

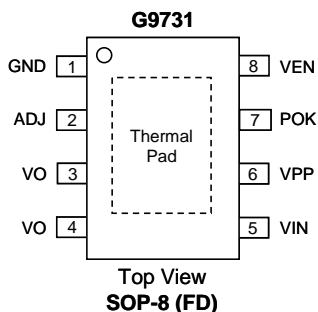
The G9731 is available in the power SOP-8 (FD) package.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G9731F11U	G9731	-40°C~+85°C	SOP-8 (FD)

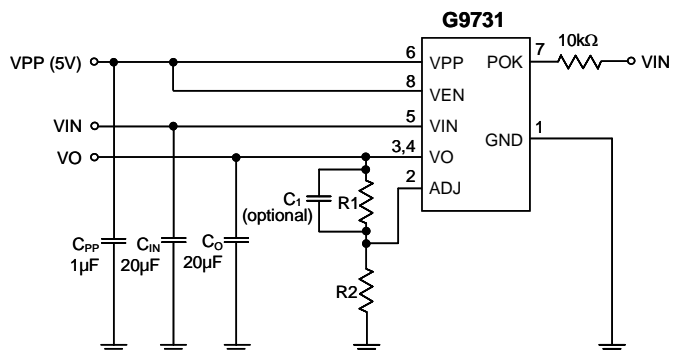
Note: F1: SOP-8 (FD)
 1: Bonding Code
 U : Tape & Reel

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 $C_1 = 22pF \sim 150pF$