



3A Low Dropout Regulator

General Description

The G6530 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 3 amps. It operates with a VIN as low as 1.6V and VPP voltage 5V with output voltage programmable as low as 0.8V. The G6530 features ultra low dropout, ideal for applications where VOUT is very close to VIN. Additionally, the G6530 has an enable pin to further reduce power dissipation while shutdown. The G6530 provides excellent regulation over variations in line, load and temperature. The G6530 pr ovides a power OK signal to indicate if the voltage level of VO reaches 92% of its rating value.

The G6530 is available in the power SOP-8PP pack- age. It is available with 1.2V, 1.5V, 1.8V and 2.5V in- ternally preset outputs that are also adjustable using external resistors.

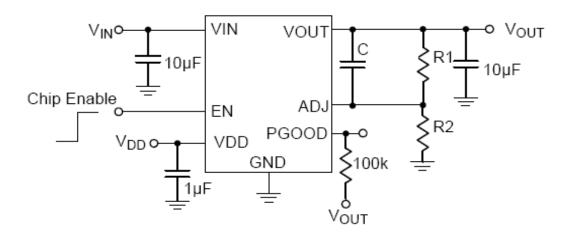
Features

- Adjustable Output Low to 0.8V
- Input Voltage as Low as 1.6V and VPP Voltage 5V
- 240mV Dropout @ 3A
- Over Current and Over Temperature Protection
- Enable Pin
- Low Reverse Leakage (Output to Input)
- Power SOP8 –PP Packages with Thermal Pad
- ±2% Output Voltage
- VO Power OK Signal
- 1.2V, 1.5V, 1.8V, 2.5V Options and Adjustable
- Externally Using Resistors
- VO Pull Low Resistance when Disable

Applications

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

Typical Application Circuit



G6530 Rev. 0.1 TEL: 0755-27933516 FAX: 0755-27944650