Asynchronous Voltage Mode Controller

Features

- **Input Voltage: 4.5V to 27V**
- **Output Voltage (700mV to 90% V_{IN})**
- **200mA Internal P-Channel FET Driver**
- **Voltage Feed-Forward Compensation**
- **Undervoltage Lockout**
- **Hiccup Overcurrent Fault Recovery**
- **Programmable Fixed Frequency (35~500KHz) Operation**
- **Programmable Short Circuit Protection**
- **700 mV 1% Reference Voltage**
- **Programmable Closed Loop Soft Start**
- **Disable Function Available**
- **Programmable Over-Voltage Protection**
- **MSOP-10 with Exposed Pad Package Available**

General Description

The G5320 is a flexible asynchronous buck controller with a built in 200mA driver for P-channel FETs. The input voltage is up to 27V. The G5320 operates with voltage-mode feedback and has feed-forward input-voltage compensation that responds instantly to input voltage change. The internal 700mV reference is trimmed to 1%, giving accurate output voltages. Clock frequency, soft-start, and overcurrent limit are each easily programmed by a single, external component. Over voltage protection (OVP) can be adjusted by setting the external resistors. Input under-voltage lockout is implemented. The G5320 is available in 10-pin MSOP exposed pad package.

Applications

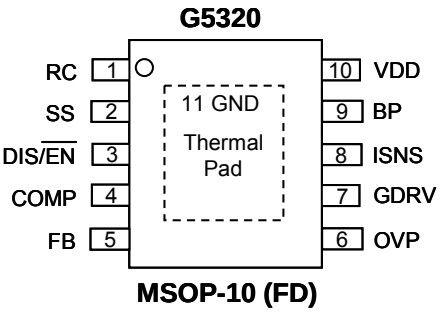
- **Telecom**
- **DSL/Cable Modems**
- **Scanners**
- **Power Applications**

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G5320F61U	G5320	-40°C to +125°C	MSOP-10 (FD)

Note: F6: MSOP-10 (FD)
1: Bonding Code
U: Tape & Reel

Pin Configuration



MSOP-10 (FD)

Note: Recommend connecting the Thermal Pad to the Ground for excellent power dissipation.