

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

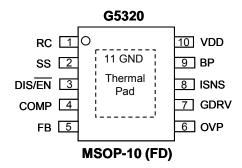
- Telecom
- **DSL/Cable Modems**
- Scanners
- Power Applications

Ordering Information

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

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

Pin Configuration



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