## 3A Step-down DC/DC

#### **Features**

- 3A Output Current
- 0.15Ω Internal Power MOSFET Switch
- Stable with Low ESR Output Ceramic Capacitors
- Up to 95% Efficiency
- 25µA Shutdown Mode
- Fixed 380kHz Frequency
- Thermal Shutdown
- Cycle-by-Cycle Over Current Protection
- Wide 4.75V to 20V Operating Input Range
- Output Adjustable from 1.22V to 12V
- Available in SOP-8 (FD) Package

## **Applications**

- **PC Monitors**
- DSL Modems
- Distributed Power Systems
- Pre-Regulator for Linear Regulators

### **General Description**

The G5656 is a monolithic step-down switch mode regulator with a built in internal power MOSFET. It achieves 3A continuous output current over a wide input supply range with excellent load and line regulation.

Current mode operation provides fast transient response and eases loop stabilization.

Fault condition protection includes cycle-by-cycle current limiting, output short circuit protection and thermal shutdown. In shutdown mode the regulator draws 25µA of supply current. Programmable soft-start overwrites the internal soft-start for various requirement of output power up ramp and minimizes the inrush supply current at initial startup.

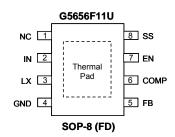
The G5656 requires a minimum number of readily available standard external components. It is available in a SOP-8 (FD) package.

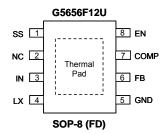
## **Ordering Information**

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G5656F11U	G5656	-40°C to +85°C	SOP-8 (FD)
G5656F12U	G5656A	-40°C to +85°C	SOP-8 (FD)

Note: F1: SOP-8 (FD) 1 & 2: Bonding Code U: Tape & Reel

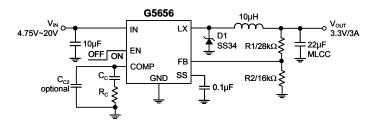
## **Pin Configuration**

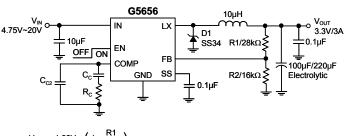




Note: Recommend connecting the Thermal Pad to the Ground for excellent power dissipation.

## **Typical Application Circuit**





 $V_{OUT} = 1.22V \times (1 + \frac{R1}{R2})$ 

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## **Applications**

- PC Monitors
- DSL Modems
- Distributed Power Systems
- Pre-Regulator for Linear Regulators

## **General Description**

The G5657 is a monolithic step-down switch mode regulator with a built in internal power MOSFET. It achieves 3A continuous output current over a wide input supply range with excellent load and line regulation.

Current mode operation provides fast transient response ans eases loop stabilization.

Fault condition protection includes cycle-by-cycle current limiting, output short circuit protection and thermal shutdown. In shutdown mode the regulator draws  $25\mu A$  of supply current. Programmable soft-start overwrites the internal soft-start for various requirement of output power up ramp and minimizes the inrush supply current at initial startup.

The G5657 requires a minimum number of readily available standard external components. It is available in a SOP-8 (FD) package.

### **Ordering Information**

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)
G5657F11U	G5657	-40°C to +85°C	SOP-8 (FD)
G5657F12U	G5657A	-40°C to +85°C	SOP-8 (FD)

Note: F1: SOP-8 (FD) 1 & 2: Bonding Code U: Tape & Reel

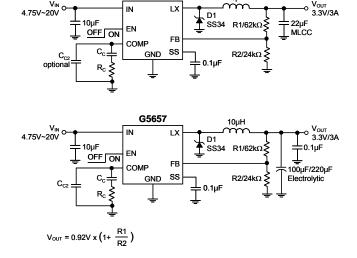
## **Pin Configuration**

#### G5657F11U G5657F12U 8 EN NC 1 8 SS ss 🗆 7 COMP IN 2 7 EN NC 2 Thermal Thermal Pad Pad 6 FB LX 3 6 COMP GND 4 5 FB LX 4 5 GND SOP-8 (FD) SOP-8 (FD)

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

## **Typical Application Circuit**

G5657



10uH