

■ General Description

AME5953 is a high efficiency 2MHz synchronous step-down DC/DC regulator capable of delivering up to 3A output current. It employs an adaptive COT control providing a fast transient response. It can operate over a wide input voltage range from 2.5V to 5.5V.

AME5953 also provides UVLO, Input OVP, OCP and OTP protection functions. It's available in the DFN-8D (2 x 2 x 0.75 mm) package.

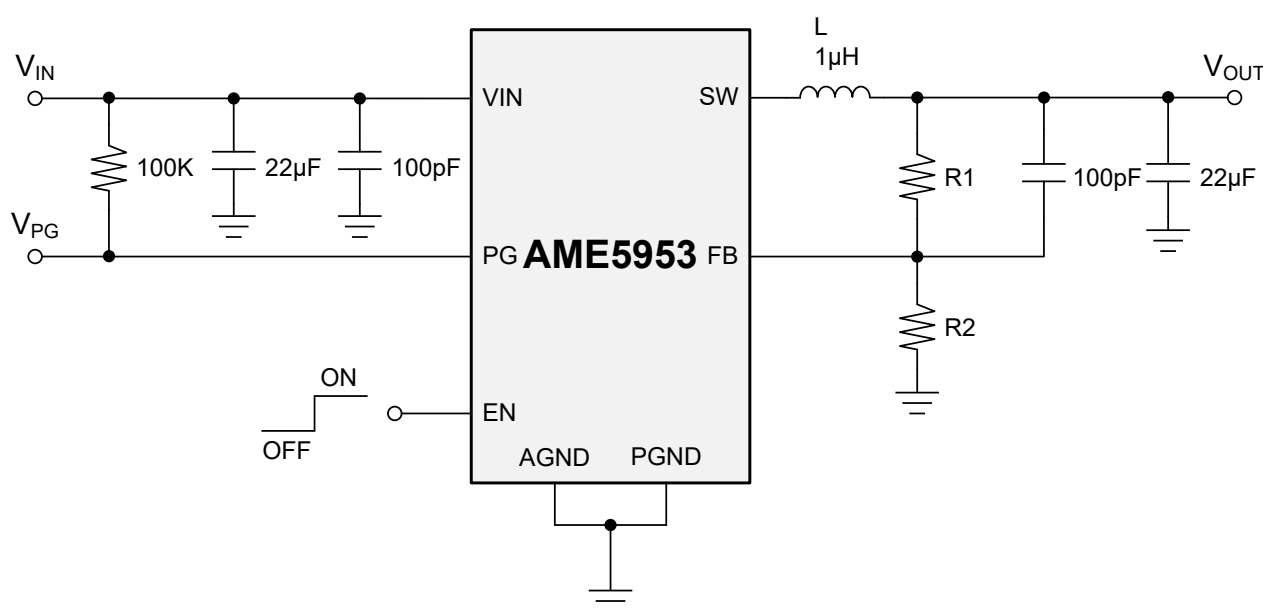
■ Application

- Networking Systems
- Flat Panel Monitors
- Laptop Computer
- Table PC

■ Features

- Input Voltage Range: 2.5V to 5.5V
- Up to 3A Max Output Current
- Adaptive COT Control
- Ultra-Fast Load Transient Response
- 2MHz Switching Frequency
- High Efficiency PFM Mode at Light Load
- 50μA Quiescent Current
- ±1%, 0.6V Feedback Voltage Accuracy
- Internal 0.8ms Soft-Start Time
- Reliable Internal Latch Off Function:
 - Output Over Voltage Protection
 - Output Under Voltage Protection
 - Output Over Current Protection
- Internal Input Over Voltage Protection
- Internal Input Under-Voltage Lockout Protection
- Internal Over Temperature Protection
- Available in DFN-8D (2 x 2 x 0.75 mm) Package
- RoHS, TSCA & HF Compliance

■ Typical Application Schematic





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Life Support Policy:

These products of AME, Inc. are not authorized for use as critical components in life-support devices or systems, without the express written approval of the president of AME, Inc.

AME, Inc. reserves the right to make changes in the circuitry and specifications of its devices and advises its customers to obtain the latest version of relevant information.

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