

■ 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.

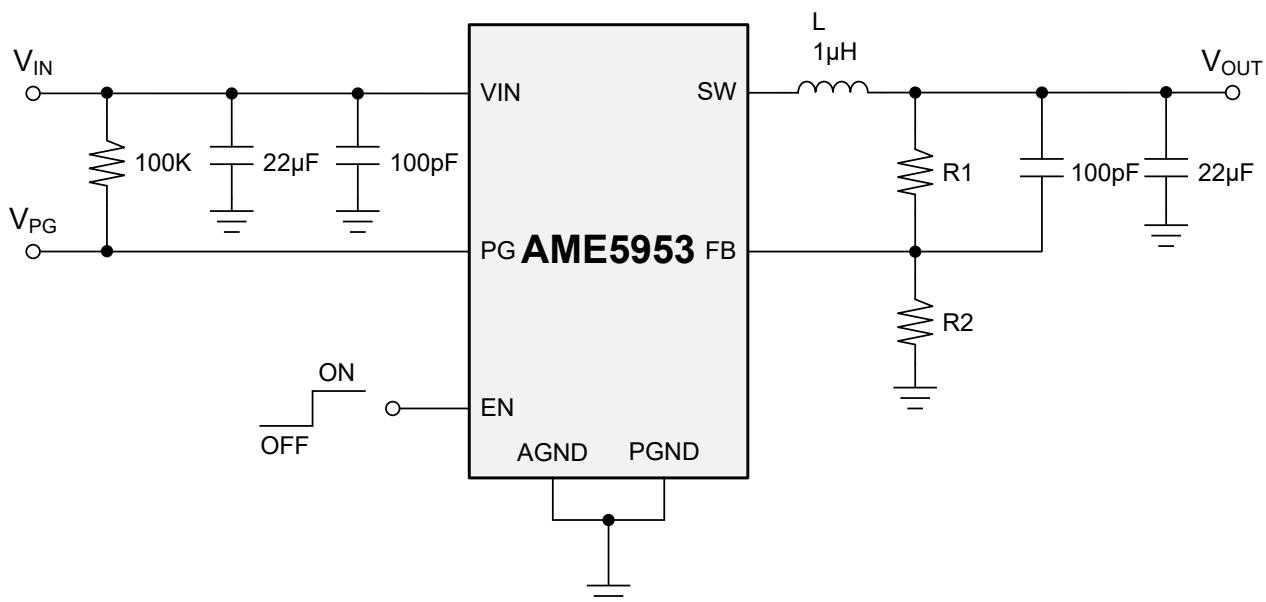
■ Application

- 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
- 50 μ A Quiescent Current
- $\pm 1\%$, 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





www.ame.com.tw
E-mail: sales@ame.com.tw

Life Support Policy:

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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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Corporate Headquarter
AME, Inc.

8F-1, 12, WenHu St., Nei-Hu Dist.,

Taipei 114, Taiwan..

Tel: 886 2 2627-8687

Fax: 886 2 2659-2989