

■ General Description

The AME6206 is a small, low $R_{DS(ON)}$, dual-channel load switch with controlled turn on. The device contains two N-channel MOSFETs that can operate over an input voltage range of 0.8V to 5.5V and can offer a maximum continuous current of 6A per channel. Each switch is independently controlled by an on and off input (EN1 and EN2), which can be driven directly by low-voltage control signals. In AME6206, a 220Ω on-chip load resistor is added for quick-output discharge when switch is turned off. It's available in a small, space-saving DFN-14A (3 x 2 x 0.75mm) package with thermal pad allowing for high power dissipation.

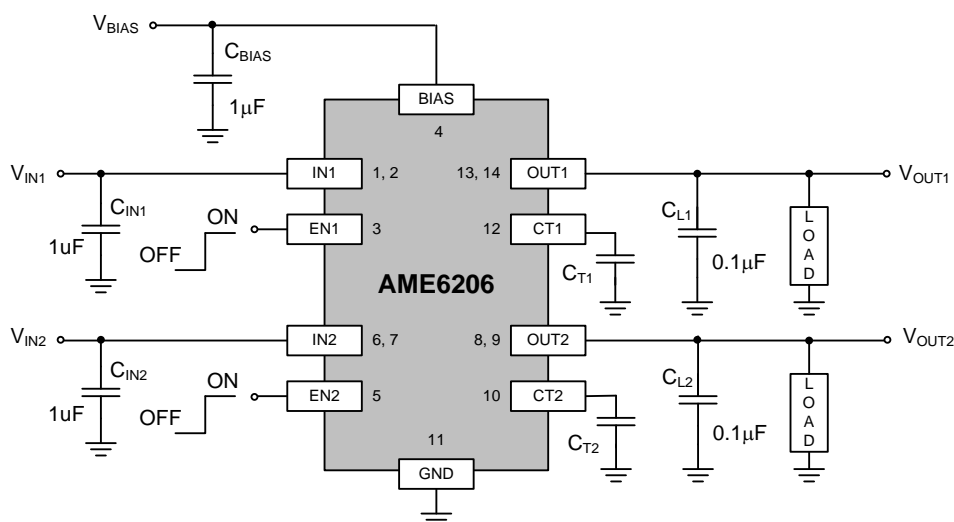
■ Features

- Input Voltage Range: 0.8V to 5.5V
- Bias Voltage Supports: 2.5V to 5.5V
- Integrated Dual-Channel Load Switch
- Ultra low $R_{DS(ON)}$ 19mΩ Per Channel
- 6A Maximum Continuous Current Per Channel
- Low Quiescent Current (72μA)
- Thermal Protection
- Configurable Rise Time
- Quick Output Discharge (QOD)
- DFN-14A(3 x 2 x 0.75mm) Package with Thermal Pad

■ Application

- Ultrabook, Notebooks and Netbooks
- Tablet PCs
- Consumer Electronics
- Set-top Boxes and Residential Gateways
- Telecom Systems
- Solid-State Drives (SSD)

■ Typical Application Schematic





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