

■ General Description

The AME6204 is a small, low R_{ON} , single-channel load switch with enable function. The device contains a 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.

The EN pin is controlled by an on and off input, which can be driven directly by low-voltage control signals. In AME6204, a 225Ω on-chip load resistor is added for quick-output discharge when AME6204 is turned off. It's available in a small, space-saving DFN-8D (2 x 2 x 0.75mm) package with thermal pad allowing for high power dissipation.

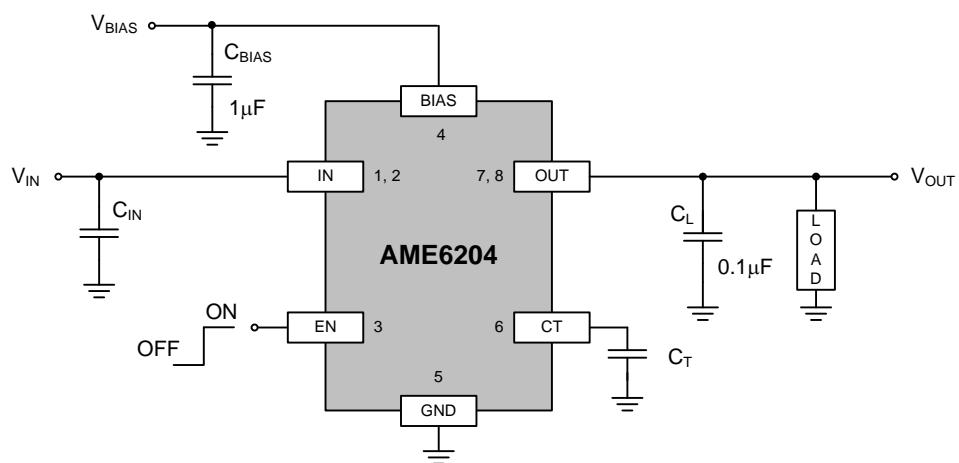
■ Features

- Input Voltage Range: 0.8V to 5.5V
- Bias Voltage Supports: 2.5V to 5.5V
- Integrated Single-Channel Load Switch
- 6A Maximum Continuous Current
- Ultra low $R_{DS(ON)}$ 23mΩ
- Low Quiescent Current (46µA)
- Thermal Protection
- Adjustable Rise Time
- Quick Output Discharge (QOD)
- DFN-8D (2 x 2 x 0.75mm) Package with Thermal Pad
- RoHS Compliant

■ 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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