MAX15034BEVKIT

Evaluation Kit for the MAX15034B and MAX5066

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Status

Active: In Production.

Description

The MAX15034B evaluation kit (EV kit) is a two-phase, dual-output buck converter with a 5V to 16V input voltage range. The MAX15034B EV kit provides dual 1.2V output voltages (V_{OUT1} and V_{OUT2}). It delivers up to 20A output current for each output with 86.7% efficiency. The MAX15034B EV kit uses average current-mode control and operates at 300kHz switching frequency per phase where each phase is 180° out-of-phase with respect to the other.

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The MAX15034B EV kit is a fully assembled and tested circuit board. Both outputs are adjustable between 0.61V and 5.5V by changing feedback resistors R4–R7. Additional features include thermal-shutdown and "hiccup-mode" short-circuit protection.

Key Features

- 5V to 16V Input-Voltage Range (Design Optimized for 12V Input)
- Output Voltages
  - 1.2V at 20A (Adjustable from 0.61V to 5.5V)
  - 1.2V at 20A (Adjustable from 0.61V to 5.5V)
- 300kHz Switching Frequency
- Both Outputs Can be Paralleled for Higher Current Capability (Using Mode Function)
- Average Current-Mode Control Provides Accurate Current Limit
- Current-Sharing Accuracy within ±5% Between Parallel Channels
- 180° Interleaved Operation Reduces Size of Input Filter Capacitors
- Overtemperature Shutdown
- Excellent Line- and Load-Transient Response
- Hiccup-Mode Overcurrent Protection
- Can be Synchronized to an External Clock
- Provision for Output DC Accuracy
- Low-Profile Components
- Fully Assembled and Tested

Applications/Uses

- Graphics Cards
- High-End Computers/Workstations/Servers
- Networking Systems
- Point-of-Load High-Current/High-Density Telecom DC-DC Regulators
- RAID Systems

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