

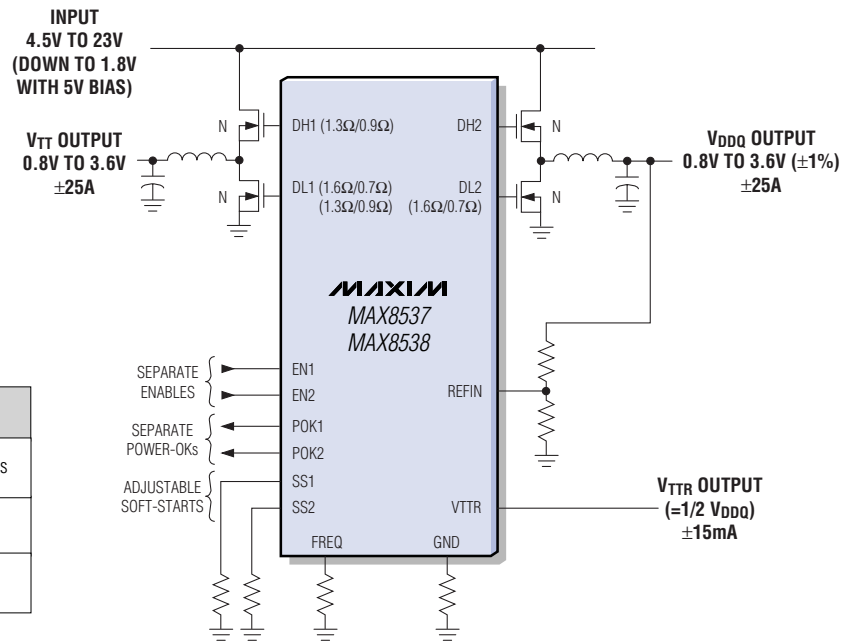
MOST POWERFUL COMPLETE DDR MEMORY SUPPLY PROVIDES V_{TTR} , V_{TT} , AND V_{DDQ} AT UP TO $\pm 25A$ FOR MID-RANGE SERVERS

The MAX8537/MAX8539 include two step-down DC-DC controllers with powerful drivers to provide $\pm 25A$ supplies for V_{TT} and V_{DDQ} . The V_{TTR} supply provides $\pm 15mA$ from an internal linear regulator. Their constant-frequency voltage-mode switching can be adjusted from 200kHz to 1.4MHz so the designer can optimize capacitor size vs. cost. They permit all-ceramic designs. Each switcher has its own enable, power-OK (POK), and adjustable soft-start and soft-stop. Each has lossless, adjustable-hiccup current limit (sensing high-side MOSFET $R_{DS(on)}$) and output overvoltage protection. They drive dual n-channel MOSFETs to reduce cost. A fast (25MHz) error amplifier permits fast transient responses and reduces capacitor size and cost.

- ◆ Complete $\pm 25A$ DDR Supplies
- ◆ Low-Impedance Drivers for >90% Efficiency
- ◆ Fast Transient Response Needs Fewer Capacitors (25MHz Error Amp)
- ◆ Many Built-In Features to Save Cost and Complexity
- ◆ MAX8537EVKIT Available to Speed Designs
- ◆ \$1.80†

Part	Feature
MAX8537EEI	Out-of-phase switching, outputs track for DDR supplies
MAX8538EEI	Out-of-phase switching, nontracking for dual-output point-of-load supplies
MAX8539EEI	In-phase switching, outputs track for DDR supplies

HIGH-POWER, COMPLETE DDR MEMORY SUPPLY PROVIDES TWO $\pm 25A$ OUTPUTS PLUS V_{TTE}



†1000-up recommended resale. Prices provided are for design guidance and are FOB USA. International prices will differ due to local duties, taxes, and exchange rates. Not all packages are offered in 1k increments, and some may require minimum order quantities.



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