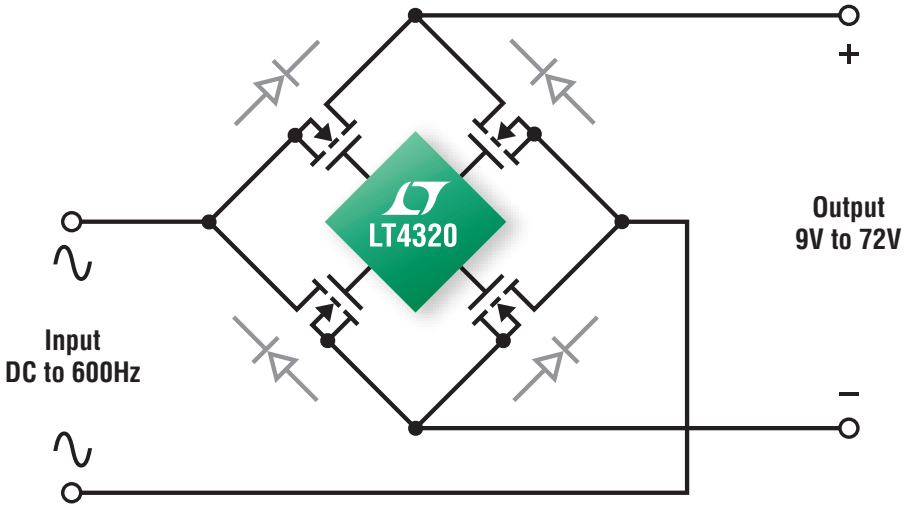
Ideal Diode Bridge



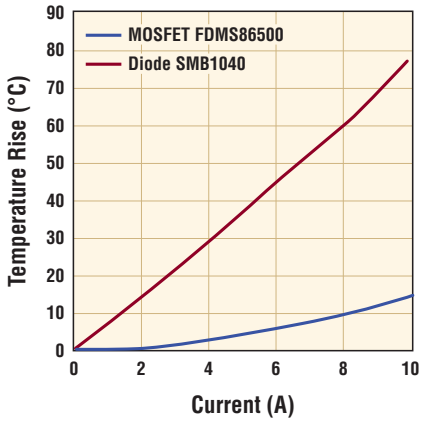
Active Diode Bridge Controller Minimizes Voltage Drop & Heat Sinking Requirements

The workhorse of AC to DC rectification, the classic four-diode bridge, just got a makeover. The LT®4320 simulates an ideal diode bridge by controlling four N-channel MOSFETs, significantly reducing heat dissipation and maximizing voltage to the application. Heat sinks can be eliminated, reducing solution size and cost. More power is available to the end application instead of being wasted as heat. Low voltage applications also benefit with the increased headroom provided by the MOSFET bridge.

Features

- Low Loss Replacement for Diode Bridge
- Controls N-Channel MOSFETs
- Maximizes Power Efficiency
- Eliminates Thermal Design Problems
- Maximizes Available Voltage
- 9V to 72V Operating Voltage Range
- DC to 600Hz Operation
- I_Q = 1.5mA (Typical)
- –55°C to +125°C Guaranteed Temperature Range
- 8-Pin 3mm x 3mm DFN and 12-Lead MSOP Packages

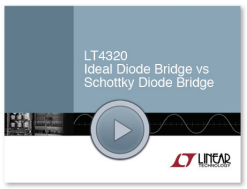
Temperature Rise vs Load Current



Info & Free Samples

www.linear.com/product/LT4320

1-800-4-LINEAR



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