

# 60 A Driver IC Achieves High Current in Small Form Factor



International Rectifier's IR3550 integrated PowIRstage synchronous buck gate driver IC with co-packed control and synchronous MOSFETs and Schottky diode is optimized internally for PCB layout, heat transfer and driver/MOSFET timing. The 60-A rated device is positioned to simplify the design and implementation of high current high performance multiphase buck regulators. The custom designed gate driver and MOSFET combination enables high efficiency at the lower output voltages required by cutting edge CPU, GPU and DDR memory designs. Up to 1.0 MHz switching frequency enables high performance transient response, allowing miniaturization of output inductors, as well as input and output capacitors while desirable efficiency. An integrated current sense amplifier is asserted to achieve superior current sense accuracy and signal to noise ratio versus best-inclass controller based Inductor DCR sense methods.

### International Rectifier

800-981-8699, [www.irf.com](http://www.irf.com) [1]

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