

## 38V 5A Synchronous Buck Converter

## **Features**

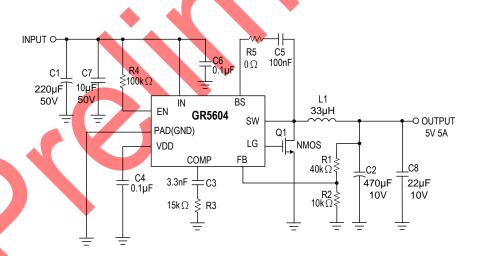
- Wide 8V to 38V Operating Input Range
- Integrated 90mΩ high side Power MOSFET Switches
- Output Adjustable from VFB(1V) to 20V
- Up to 95% Efficiency
- Internal Soft-Start
- Stable with Low ESR Ceramic Output Capacitors
- Fixed 160KHz Frequency
- Cycle-by-Cycle Over Current Protection
- Input Under/Over Voltage Lockout

## Description

The GR5604 is a monolithic synchronous buck regulator. The device integrates internal high side and external low side power MOSFETs, and provides 5A of continuous load current over a wide input voltage of 8V to 38V. Current mode control provides fast transient response and cycle-by-cycle current limit.

An internal soft-start prevents inrush current at turn-on, This device, available in SOP8L-EP (Exposed pad) package, provides a very compact solution with minimal external components.

## **Application Circuit**



 $V_{OUT}=V_{FB} \times (1+R1/R2)$ ,  $V_{FB} = 1.00V$ , R2 suggest  $10k\sim30k\Omega$