

## 38V Synchronous Buck Converter

### ❖ GENERAL DESCRIPTION

The MA5611 is a monolithic synchronous buck regulator. The device integrates two internal power MOSFETs, and provides 2.5A of continuous load current over a wide input voltage. 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.

### ❖ FEATURES

- Wide 8V to 36V Operating Input Range
- Integrated 130mΩ Power MOSFET Switches
- Output Adjustable from VFB(1V±2%) to 20V
- Up to 93% Efficiency
- Internal Soft-Start t and Fixed 160KHz Frequency
- Stable with Low ESR Ceramic Output Capacitors
- Cycle-by-Cycle Over Current Protection
- Input Under/Over Voltage Lockout

### ❖ TYPICAL CIRCUIT

