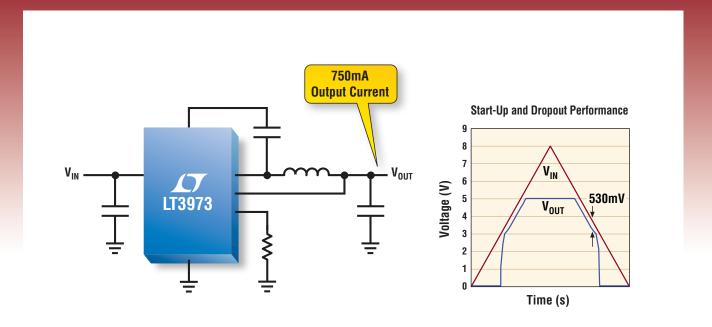
## 42V, 2μA Io Low Dropout Switcher

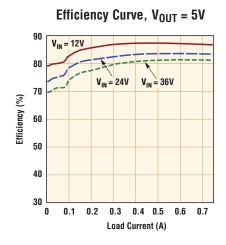


## 530mV Maximum Dropout

The LT $^{\circ}$ 3973 is the newest member of our growing family of ultralow quiescent current high voltage monolithic buck regulators. It consumes only 1.8 $\mu$ A of quiescent current while regulating an output of 3.3V from a 12V input source. A high efficiency switch is included on-chip along with the catch diode, boost diode and all necessary control and logic circuitry. A minimum dropout voltage of 530mV is maintained when the input voltage drops below the programmed output voltage, providing a regulated output to the downstream load. Its low ripple Burst Mode $^{\circ}$  operation maintains high efficiencies at low output currents while keeping output ripple below  $10 \text{mV}_{P-P}$ .

## Features

- Ultralow Quiescent Current: 1.8µA I<sub>O</sub> at 12V<sub>IN</sub> to 3.3V<sub>OUT</sub>
- Low Ripple Burst Mode Operation
- Input Voltage Range: 4.2V to 42V
- Integrated Boost and Catch Diodes
- Excellent Start-Up & Dropout Performance
- 750mA Output Current
- Adjustable Switching Frequency: 200kHz to 2.2MHz



## / Info & Free Samples

www.linear.com/product/LT3973 1-800-4-LINEAR



www.linear.com/autosolutions

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