

Features

- Wide Input Range: 4.5V to 30V
- Output Voltage from 0.8V
- 370kHz Switch Frequency
- Peak 2A Output Current
- Power Save Mode at Light Load
- COT control to achieve fast transient responses
- Integrated internal compensation
- Stable with Low ESR Ceramic Output Capacitors
- 250mΩ/120mΩ Low $R_{DS(ON)}$ internal FETs
- Over Current Protection with Hiccup Mode
- Thermal Shutdown
- Inrush Current Limit and Soft Start
- Build in Input Over Voltage Protection
- Available in SOT23-6 Package

Description

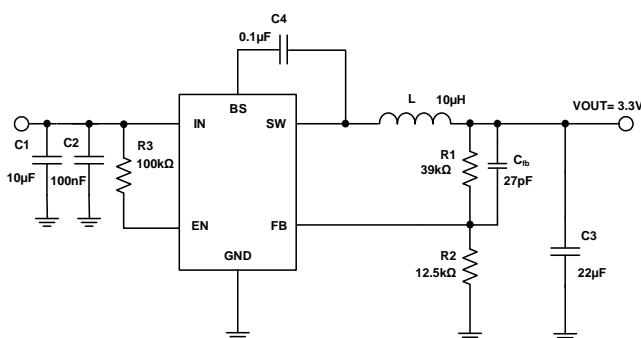
The TCS4332 is a high efficiency 370kHz switching frequency synchronous Buck DC-DC converter with capability of delivering up to peak 2A current. TCS4332 integrates both high and low side switch with low $R_{DS(ON)}$ to minimize the conduction loss. Low output voltage ripple and small external inductor and capacitor size are achieved with 370kHz switching frequency.

The TCS4332 requires a minimum number of external components and it is available in a 6-pin SOT23-6 RoHS compliant package.

Application

- Distributed Power Systems
- Security Equipment
- Flat Panel Television and Monitors
- Smart Home
- Industrial Power Systems

Typical Application



TCS4332 Typical Application Circuits ($V_{REF}=0.8V$)

Efficiency

$V_{OUT}=3.3V$, $I_{OUT}=0.001A$ to $2A$, $T_A=25^{\circ}C$

