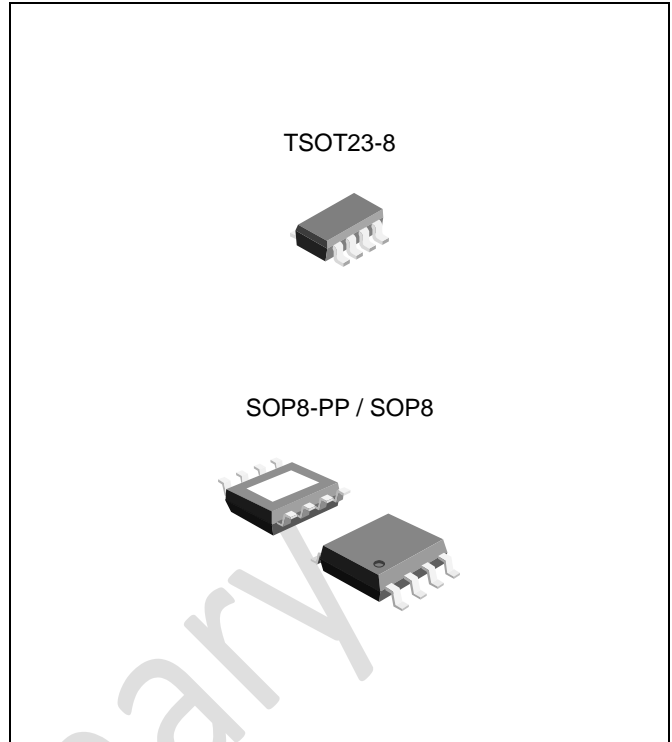


FEATURES

- 2A Continuous Output Current
- Wide 2.5V to 6V Operating Input Range
- Integrated Very Low On-Resistance Power MOSFET Switches
- Up to 95% Efficiency
- Stable with Low ESR Ceramic Capacitor
- Automatic Pulse Skipping for Light Load Efficiency
- 100% Duty Cycle in Dropout Mode
- 1.5MHz Switching Frequency
- Very Small Quiescent Current
- Very Small Supply Current in Shutdown Mode
- Cycle-by-cycle Over Current protection
- Power-Good Function
- Input Under Voltage Lockout
- Over Voltage Protection
- Short Circuit Protection with Hiccup Mode
- Over Temperature Protection
- Available in TSOT23-8, SOP8, and SOP8 Exposed Thermal Pad Packages



ORDERING INFORMATION

Device	Package
TJ2161GSF8	TSOT23-8
TJ2161GD	SOP8
TJ2161GDP	SOP8-PP

* For the details, see ordering information.

APPLICATIONS

- Digital TV, LCD Display, Projectors
- Set Top Box (STB, DVD/Blu-ray Player)
- Wireless/Networking Cards
- Portable Instruments
- Battery Powered Devices
- Green Electronics/ Appliances

DESCRIPTION

The TJ2161 is a synchronous buck converter with an input voltage range of 2.5V to 6V. The device has an integrated 85mΩ high-side and 55mΩ low-side MOSFET switches that provide 2A of continuous load current with excellent load and line regulation (in case of TJ2161GSF8). The output voltage can be regulated as low as 0.6V.

Adaptive On-Time control scheme provided fast transient response, cycle-by-cycle current limit and excellent output voltage regulation. It is stable with low ESR output ceramic capacitors.

This device provides accurate regulation for a variety of loads with a well-regulated voltage reference.

Efficiency is maximized by integrated switches, low IQ, and automatic pulse skipping at light loads.

The TJ2161 is equipped with adjustable soft start and protection functions for various conditions such as over voltage, under voltage, over current, short circuit and over temperature.

The TJ2161 is available in TOST23-8, SOP8, and SOP-8 exposed thermal pad packages.

Please contact us for more information about this product.