Dual Micropower DC/DC Converter with Positive and Negative Outputs

General Description

The TP3600 is a dual micropower DC/DC converter in in a 10-pin MSOP package. Each converter is designed with a 350mA current limit and an input voltage range of 1.2V to 15V, making the TP3600 ideal for a wide variety of ap- plications. Both converters feature a quiescent slightly in dropout, further prolonging the battery life. current of only 20μA at no load, which further reduces capacitors, reducing the amount of board space to 0.5μA in shutdown. A current limited, fixed off-time control scheme conserves operating current, resulting in high efficiency over a broad range of load current. The 36V switch allows high voltage outputs up to ±34V to be easily generated without the use of costly transformers. The TP3600's low off-time of 400ns permits the use of tiny, low profile inductors and capacitors to minimize footprint and cost in space-conscious portable applications.

Features

- Generates Well-Regulated Positive and Negative Outputs
- Low Quiescent Current:
  - 20μA in Active Mode (per Converter)
  - <1μA in Shutdown Mode
- Operates with VIN as Low as 1.2V
- Low VCESAT Switch: 250mV at 300mA
- Uses Small Surface Mount Components
- High Output Voltage: Up to ±34V
- Tiny 10-Pin MSOP Package

Applications

- Small TFT LCD Panels
- Handheld Computers
- Battery Backup
- Digital Cameras

Ordering Information

TP3600-□□ □

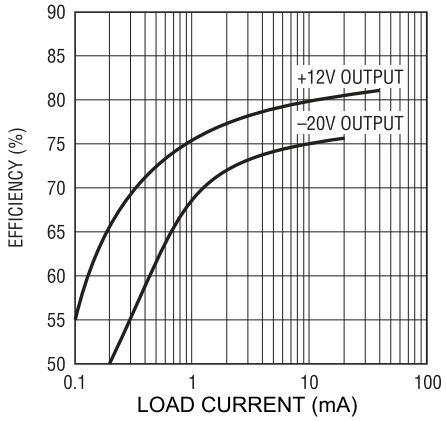
F:Pb-Free

Package Type
M0:MSOP-10

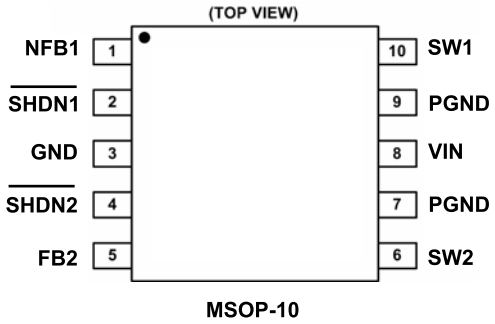
Marking Information

For marking information,contact our sales representative directly or through a TPmicro distributor located in your area.

Efficiency at VIN=3.6V



Pin Configurations



MSOP-10