

FP6132

2.5A, 40V, Car Charger / Adaptor Step-Down Converter

General Description



The FP6132 is a buck regulator with a built in internal power MOSFET. It achieves 2.5A continuous output current over a wide input supply range with excellent load and line regulation. Current mode operation provides fast transient response and eases loop stabilization. A wide switching frequency range allows efficiency and external component size to be optimized. The device includes under voltage lockout and thermal shutdown protection. The regulator only consumes 75µA supply current in shutdown mode. The FP6132 requires a minimum number of readily available external components to complete a 2.5A buck regulator solution.

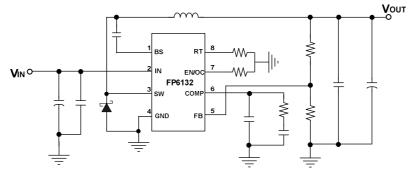
Features

- 40V Input Voltage Surge
- > 36V Steady State Operation
- > Up to 2.5A Output Current
- Built-in Soft-Start
- > 0.22Ω Internal Power MOSFET Switch
- ➢ Up to 90% Efficiency
- ➢ 75µA Shutdown Mode Current
- > Adjustable Switching Frequency using external Resistance setting
- > Adjustable Over Current Protection using external Resistance setting.
- > Thermal Shutdown
- > Secondary Cycle-by-Cycle Over Current Protection
- Available SOP8 With Exposed PAD

Applications

> Car Charger/ Adaptor

Typical Application Circuit

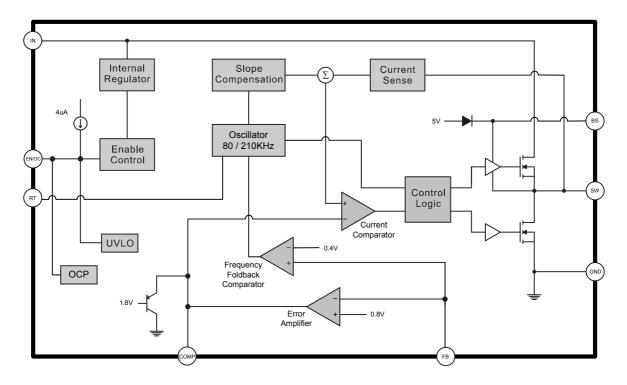


This datasheet contains new product information. Feeling Technology reserves the rights to modify the product specification without notice. No liability is assumed as a result of the use of this product. No rights under any patent accompany the sales of the product.



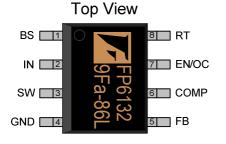
FP6132

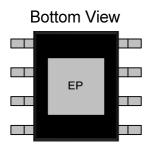
Function Block Diagram



Pin Descriptions

SOP-8 (EP)





Name	No.	I/O	Description
BS	1	0	Bootstrap
IN	2	Ρ	Supply Voltage
SW	3	0	Switch
GND	4	Ρ	Ground
FB	5	Ι	Feedback
COMP	6	0	Compensation
EN/OC	7	I	Enable/UVLO; Resistance for OC
RT	8	I	Resistance for OSC Frequency
EP	9	Ρ	Exposed PAD – Must connect to Ground

This datasheet contains new product information. Feeling Technology reserves the rights to modify the product specification without notice. No liability is assumed as a result of the use of this product. No rights under any patent accompany the sales of the product.