General Description

The ET3406 is a high efficiency monolithic synchronous buck regulator using a constant frequency, current mode architecture. The device is available in an adjustable version and fixed output voltages of 1.5V and 1.8V. Supply current drops to ≤1μA in shutdown. The 2.5V to 5.5V input voltage range makes the ET3406 ideally suited for single Li-Ion battery-powered applications. 100% duty cycle provides low dropout operation, extending battery life in portable systems.

Switching frequency is internally set at 1.5MHz, allowing the use of small surface mount inductors and capacitors. The internal synchronous switch increases efficiency and eliminates the need for an external Schottky diode. Low output voltages are easily supported with the 0.6V feedback reference voltage.

Features

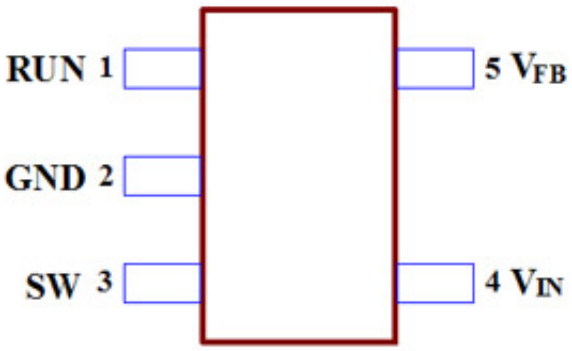
- High Efficiency: Up to 96%
- 600mA Output Current
- 2.5V to 5.5V Input Voltage Range
- 1.5MHz Constant Frequency Operation
- No Schottky Diode Required
- Low Dropout Operation: 100% Duty Cycle
- Shutdown Mode Draws ≤ 1μA Supply Current
- Current Mode Operation for Excellent Line and Load Transient Response
- Over temperature Protected
- Package

Model	VFB	VOUT	Printing marks	Packaging
ET3406-06	0.6V	-	340606	SOT23-5
ET3406R	0.6V	-	3406R	SOT23-5
ET3406-15	-	1.5V	340615	SOT23-5
ET3406-18	-	1.8V	340618	SOT23-5
ET3406-18Y	-	1.8V	340618Y	DFN6（3*3）

Applications

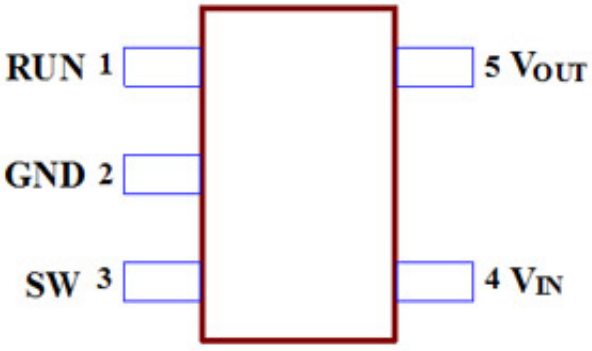
- Cellular Telephones
- Personal Information Appliances
- Wireless and DSL Modems
- Digital Still Cameras
- MP3 Players
- Portable Instruments

Pin Configuration



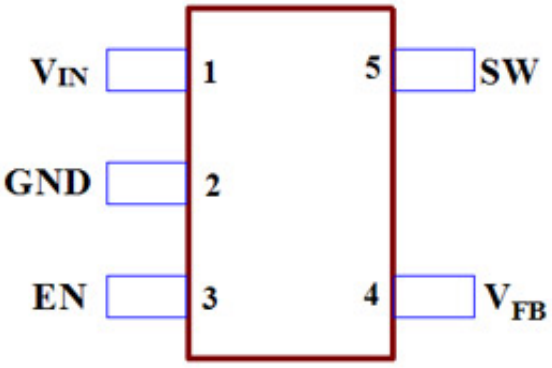
TOP VIEW

ET340606

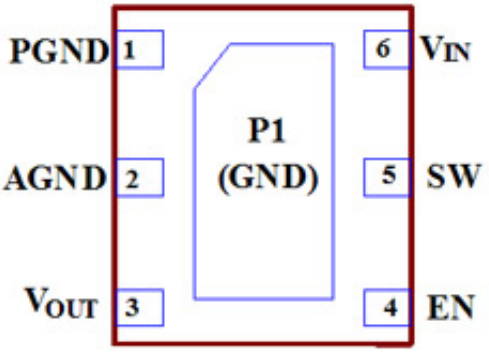


TOP VIEW

ET340615or ET340618



ET3406R



ET340618Y