

Synchronous Boost DC/DC Regulator

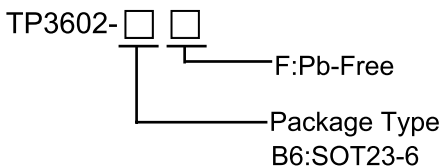
General Description

The TP3602 is high efficiency synchronous, PWM step-up DC/DC converters optimized to provide a high efficient solution to medium power systems. The devices work under the input voltage between 0.9V and 4.4V with a 1.4MHz fixed frequency switching. These features minimize overall solution footprint by allowing the use of tiny, low profile inductors and ceramic capacitors. Automatic PWM/PFM. mode switching at light load saves power and improve efficiency.

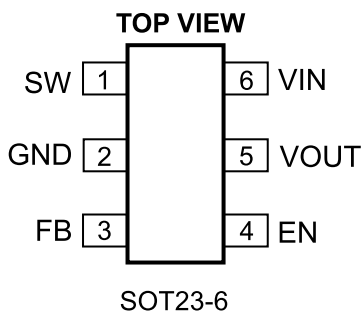
The TP3602 is capable of supplying an output voltage between 2.5V and 4.3V, the internal synchronous switch is desired to provide high efficiency without Schottky. The devices also featured providing up to 260mA from a single AA cell input or up to 600mA from a 2-cell AA with a 3V/3.3V output.

The TP3602 regulators are available in the industry standard SOT-23-6 power packages (or upon request).

Ordering Information



Pin Configurations



Features

- Up to 94% Efficiency
- Low voltage start-up:0.9V
- Shut-down current: < 1uA
- Input voltage:0.9V-4.4V
- Output voltage:2.5V-4.3V (Up to 5V with Schottky)
- Low switch on resistance RDS(ON)=0.35
- 1.4MHz fixed frequency switching
- Automatic PWM/PFM mode switching
- High switch on current: 1A
- Low profile SOT-23-6 package (lead-free packaging is now available)

Applications

- Digital cameras and MP3
- AIK. Battery products
- Wireless handsets and DSL modems

Marking Information

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

Functional Pin Description

Pin Name	SOT23-6	Function
SW	1	Switch Output
GND	2	Ground
FB	3	Feedback
EN	4	ON/OFF Control (High Enable)
VOUT	5	Output
VIN	6	Input