

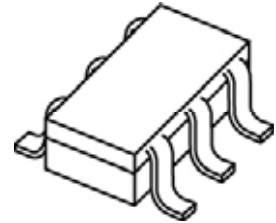


Regulated Charge Pump

Features

- 5V fixed output voltage
- Max. output current: 80mA@ $V_{IN}>3.2V$
- Power conversion efficiency: 83.3%@ $V_{IN}=3V, I_{OUT}=60mA$
- Input voltage range : 2.8V to 5V
- Built-in internal soft-start function
- Over current protection
- Short circuit protection
- Thermal shutdown protection
- RoHS compliant and lead (Pb)-free

Small Outline Transistor



GST: SOT-23-6L

Product Description

The MBI6501 is a high performance charge pump DC/DC converter that produces a regulated 5V output. No external inductor is required for operation. The operating voltage range is 2.8V to 5V. Internal soft-start circuitry effectively reduces the in-rush current both while start-up and mode change.

The MBI6501 features very low quiescent current, over current protection, thermal shutdown protection and short circuit protection. The MBI6501 is available in SOT-23-6 package.

Applications

- LED backlight for mobile phone, smart phone
- Camera flash white LED
- Power supply for LCD modules