

MAX1720

Charge Pump, Switched Capacitor Voltage Inverter with Shutdown, 50 mA, 12 kHz

Product Overview

For complete documentation, see the data sheet.

The MAX1720 is a CMOS charge pump voltage inverter that is designed for operation over an input voltage range of 1.15 V to 5.5 V with an output current capability in excess of 50 mA. The operating current consumption is only 67 μ A, and a power saving shutdown input is provided to further reduce the current to a mere 0.4 μ A. The device contains a 12 kHz oscillator that drives four low resistance MOSFET switches, yielding a low output resistance of 26 Ω and a voltage conversion efficiency of 99%. This device requires only two external 10 μ F capacitors for a complete inverter making it an ideal solution for numerous battery powered and board level applications.

Features

- Operating Voltage Range of 1.15 V to 5.5 V
- Output Current Capability in Excess of 50 mA
- Low Current Consumption of 67 μ A
- Power Saving Shutdown Input for a Reduced Current of 0.4 μ A
- Operation at 12 kHz
- Low Output Resistance of 26 Ω

Applications

- LCD Panel Bias
- Cellular Telephones
- Pagers
- Personal Digital Assistants
- Electronic Games