Product Overview

MAX1720: Charge Pump, Switched Capacitor Voltage Inverter with Shutdown, 50 mA, 12 kHz

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 ?A, and a power saving shutdown input is provided to further reduce the current to a mere 0.4 ?A. The device contains a 12 kHz oscillator that drives four low resistance MOSFET switches, yielding a low output resistance of 26 ? and a voltage conversion efficiency of 99%. This device requires only two external 10?F capacitors for a complete inverter making it an ideal solution fornumerous 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 µA
- Power Saving Shutdown Input for a Reduced Current of 0.4 µA
- Operation at 12 kHz
- Low Output Resistance of 26 W

Applications

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

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	V_{in} Typ (V)	V_{out} Typ (V)	I_{out} Typ (mA)	I_{CC} Max (µA)	f_{OSC} Typ (kHz)	Shutdown Pin	Package Type
MAX1720EUTG	0.2683	Pb-free Halide free	Active	1.15 to 5.5	-Vin or 2Vin	90	90	12	Yes	TSOP-6

For more information please contact your local sales support at www.onsemi.com.

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