

Product Overview

NCP1729: Charge Pump, Switched Capacitor Voltage Inverter with Shutdown, 50 mA, 35 kHz

For complete documentation, see the data sheet.

The NCP1729 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 122 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 35 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 3.3 μ F capacitors for a complete inverter making it an ideal solution for numerous battery powered and board level applications. The NCP1729 is available in the space saving TSOP-6 (SOT-23-6) package.

Features

- Operating Voltage Range of 1.15 V to 5.5 V
- Output Current Capability in Excess of 50 mA
- Low Current Consumption of 122 μ A
- Power Saving Shutdown Input for a Reduced Current of 0.4 μ A
- Operation at 35 kHz
- Low Output Resistance of 26 Ω

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 (μ A)	f _{osc} Typ (kHz)	Shutdown Pin	Package Type
NCP1729SN35T1G	0.4	Pb-free Halide free non AEC-Q and PPAP	Active	1.15 to 5.5	-Vin or 2Vin	50	20	35	Yes	TSOP-6

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

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