



# Switched Capacitor Voltage Inverter

## Features

- Inverts Input Supply Voltage
- 25mA Output Current with a Voltage Drop of 250mV
- 0.45mA Quiescent Current at 3.3V Supply Voltage
- 99% Voltage Conversion Efficiency
- 1.8V to 5V operating range
- Require Only Two Capacitors
- Over-Temperature Protection
- 8-Pin SOP Package

## Applications

- Cell Phone
- Small LCD Panels
- Portable Equipment
- Handy-Terminals, PDAs
- Battery-Operated Equipment

## General Description

The G5931 is an unregulated charge-pump voltage inverter which may be used to generate a negative supply from positive input. Input voltages ranging from +1.8V to +5V can be inverted into a -1.8V to -5V output supply. The device is ideal for both battery-powered and board level voltage conversion applications with a typical operating current of 0.45mA at 3.3V supply.

The G5931 can deliver 25mA output current with a voltage drop of 250mV. The parts are over-temperature protected.

Applications include cell phones, PDAs, and other portable equipment. The device is available in 8-pin SOP Package.

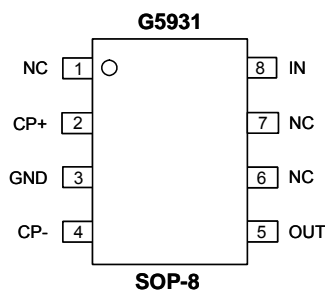
## Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Pb free)
G5931P1U	G5931	-40°C to 85°C	SOP-8

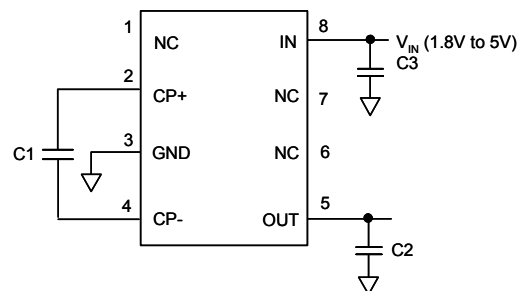
Note: P1 : SOP-8

U: Tape & Reel

## Pin Configuration



## Typical Application Circuit



C1,C2,C3: 1μF MLCC (X5R)