



Switching Regulator Power Controller

Features

- 2.2V~6V Supply Voltage Operating Range
- Low Current Consumption: 5mA in Operation, 1µA or Less in Stand-by
- 20kHz to 1MHz Operation Frequency Range
- Built-In Soft Start Circuit
- Built-In Timer-Latch Type Short Circuit Detection and Protection (SCP) Circuit
- Use External Resistor to Set a Fixed Output Current

Applications

- LCD Displays
- PDAs
- Digital Still Cameras

General Description

The G5180 is a single-channel PWM control IC for low voltage DC/DC conversion incorporating a soft start function and short circuit detection function. The device has a low minimum operating voltage of 2.2V and is ideal for the power supply of battery-operated electronic equipment.

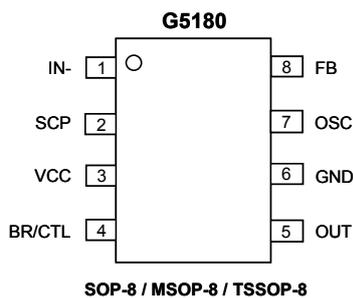
Ordering Information

| ORDER NUMBER | MARKING | TEMP. RANGE | PACKAGE (Pb free) |
|--------------|---------|-------------|-------------------|
| G5180P1U | G5180 | 0°C to 85°C | SOP-8 |
| G5180P8U | G5180 | 0°C to 85°C | MSOP-8 |
| G5180D1U | G5180 | 0°C to 85°C | TSSOP-8 |

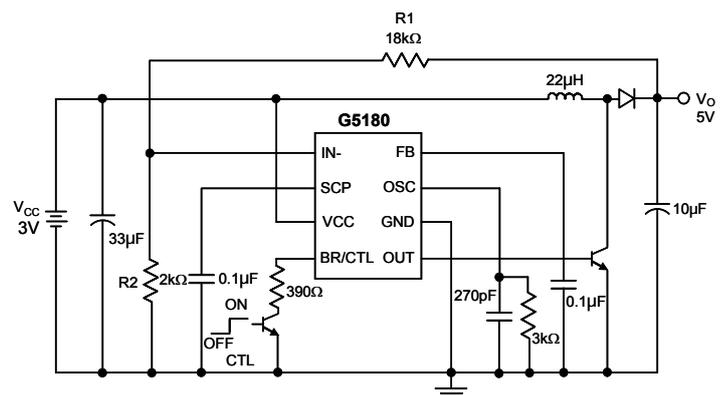
Note: P1: SOP-8 P8: MSOP-8 D1: TSSOP-8

U: Tape & Reel

Pin Configuration



Typical Application Circuit



$$V_o = 0.5 \times \left(1 + \frac{R1}{R2}\right)$$