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**

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.

Applications

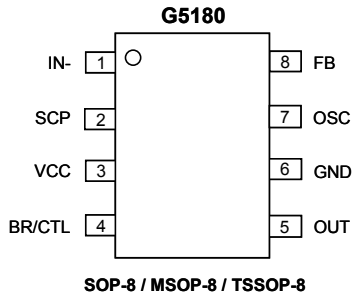
- **LCD Displays**
- **PDAs**
- **Digital Still Cameras**

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

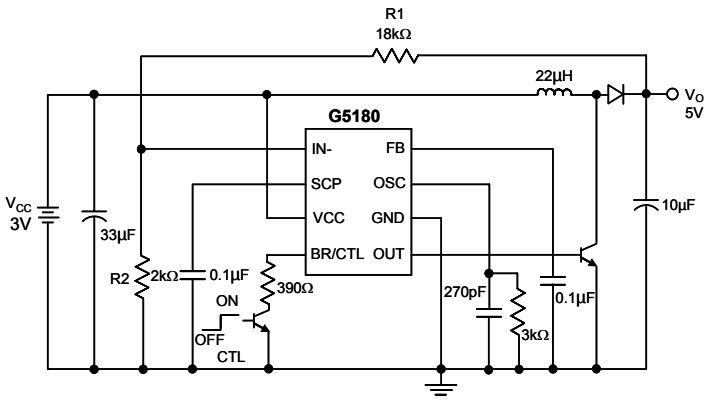
Note: P1: SOP-8 P8: MSOP-8 D1: TSSOP-8
U: Tape & Reel

Pin Configuration



SOP-8 / MSOP-8 / TSSOP-8

Typical Application Circuit



$$V_O = 0.5 \times (1 + \frac{R1}{R2})$$