

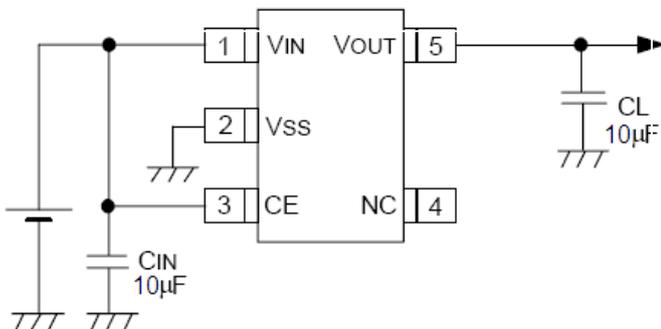
General Description

The TCS2119 series are highly accurate, low noise, LDO Voltage Regulators. On chip trimming adjusts the reference/output voltage to within $\pm 2\%$ accuracy. Internal protection features consist of output current limiting, safe operating area compensation, and thermal shutdown. The current limiter's feedback circuit also operates as a short protect for the output current limiter and the output pin. The CE function allows the output of regulator to be turned off, resulting in greatly reduced power consumption. The TCS2119 series can operate with up to 18V input.

Features

- Maximum Output Current: 400mA
- Dropout Voltage: 104mV @ $I_{OUT} = 100mA$
- Operating Voltage Range: 2.5V ~ 18V
- Highly Accuracy: $\pm 2\%$
- Adjustable Output Voltage Option
- Standby Current: 60uA (TYP.)
- Line Regulation: 30mV (TYP.)
- Temperature Stability $\leq 0.5\%$
- Thermal Shutdown Protection: 164°C
- Packages: SOT23-5

Typical Application Circuit



Typical Application

- Consumer and Industrial Equipment Point of Regulation
- Switching Power Supply Post Regulation
- Hard Drive Controllers
- Battery Chargers