



General Description

SE85XX series is designed for power-sensitive applications. It includes a precision and high voltage input stage, an ultra-low-power bias current branch, and results in a ultra-low-power and low-dropout linear regulator.

The SE85XX operates from an input voltage of $V_{OUT}+1V$ to 35V, consumes only 2.6 μ A of quiescent current, and offers 1% initial accuracy and low dropout voltage, 300mV typical at 100mA.

SE85XX has 1.8V, 2.5V, 3.0V, 3.3V, 3.6V, 4.0V, 4.2V, 5.0V fixed voltage versions.

Other features include short-circuit protection and thermal shutdown.

Features

- Ultra Low Quiescent Current: 2.6 μ A(Typ.)
- Wide Operating Voltage: $V_{OUT}+1V$ to 35V
- High output current: $\geq 200mA$
- System startup with no overshoot
- Short circuit protection is designed with no overshoot
- UVLO 1.8V
- Low Dropout Voltage
- High Accuracy Output Voltage: $\pm 1\%$
- Excellent power / load transient response
- Low temperature coefficient: $\pm 100ppm/^{\circ}C$
- Thermal and Short-Circuit Protection
- SOT-89 and SOT-23 package
- Customer Pin Assignments are available

Applications

- Battery-powered Smoke sensor
- Smoke sensor
- Microcontrollers
- Household appliances and instruments

Application Diagram

