Description

The SE8117 series of high performance low dropout voltage regulators are designed for applications that require efficient conversion and fast transient response.

In addition, SE8117 is designed to be stable under conditions where Cin and Cout are not present. However, it is recommended to include Cin and Cout in the system design as this will speed up the transient response and increase the PSRR rating. SE8117 is characterized under Junction Temperature from -40°C to +125°C.

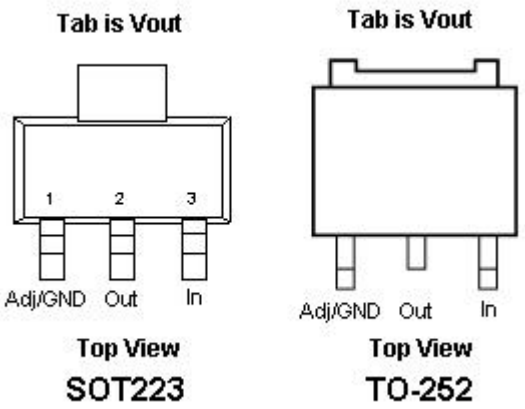
Application

- Active SCSI Terminators.
- High Efficiency Linear Regulators.
- 5V to 3.3V Linear Regulators
- Motherboard Clock Supplies.

Features

- Low Dropout Performance.
- Low Quiescent Current：2.7mA（Typ.）
- Guaranteed 1A Output Current.
- Wide Input Supply Voltage Range.
- Stable operation without Cin and Cout.
- Over-temperature and Over-current Protection.
- Fixed or Adjustable Output Voltage.
- Available in SOT-223 and TO252 Packages.
- RoHS Compliant

Pin Configuration



Pin Description

NO.	Pin Name	Pin Function Description
1	ADJ/GND	A resistor divider from this pin to the VOUT pin and ground sets the output voltage (Ground only for Fixed-Mode).
2	OUT	The output of the regulator. A minimum of 4.7μF capacitor (0.15Ω ≤ ESR ≤ 0.5Ω) must be connected from this pin to ground to insure stability.
3	IN	The input pin of regulator. Typically a large storage capacitor is connected from this pin to ground to insure that the input voltage does not sag below the minimum dropout voltage during the load transient response. This pin must always be 1.3V higher than VOUT in order for the device to regulate properly. A minimum of 4.7μF capacitor (0.15Ω ≤ ESR ≤0.5Ω) must be connected from this pin to ground to insure stability.