

General Description

The AS1117 is a series of low dropout three-terminal regulators with a dropout of 1.40V at 1A output current.

The AS1117 has an adjustable version, that can provide the output voltage from 1.25V to 13.8V with only two external resistors.

The AS1117 series provides current limiting and thermal shutdown. Its circuit includes a trimmed bandgap reference to assure output voltage accuracy to be within 1.5%. Current limit is trimmed to ensure specified output current and controlled short-circuit current. Onchip thermal shutdown provides protection against any combination of overload and ambient temperature that would create excessive junction temperature.

The AS1117 series is available in the industry standard SOT-223, SOT-89, TO-220, TO-252 and TO-263 power packages.

Features

- Low dropout voltage: 1.4V at 1A output current
- Trimmed current limit
- On-chip thermal shutdown
- Standard SOT-223, SOT-89, TO-220, TO-252 and TO-263 packages
- Three-terminal adjustable or fixed 1.2V,1.5V, 1.8V,2.5V, 3.3V, 5V
- Operation junction temp.: -40°C to 125°C

Applications

- PC Motherboard
- LCD Monitor
- Graphic Card
- DVD-Video Player
- NIC/Switch
- Telecom Equipment
- ADSL Modem
- Printer and other Peripheral Equipment

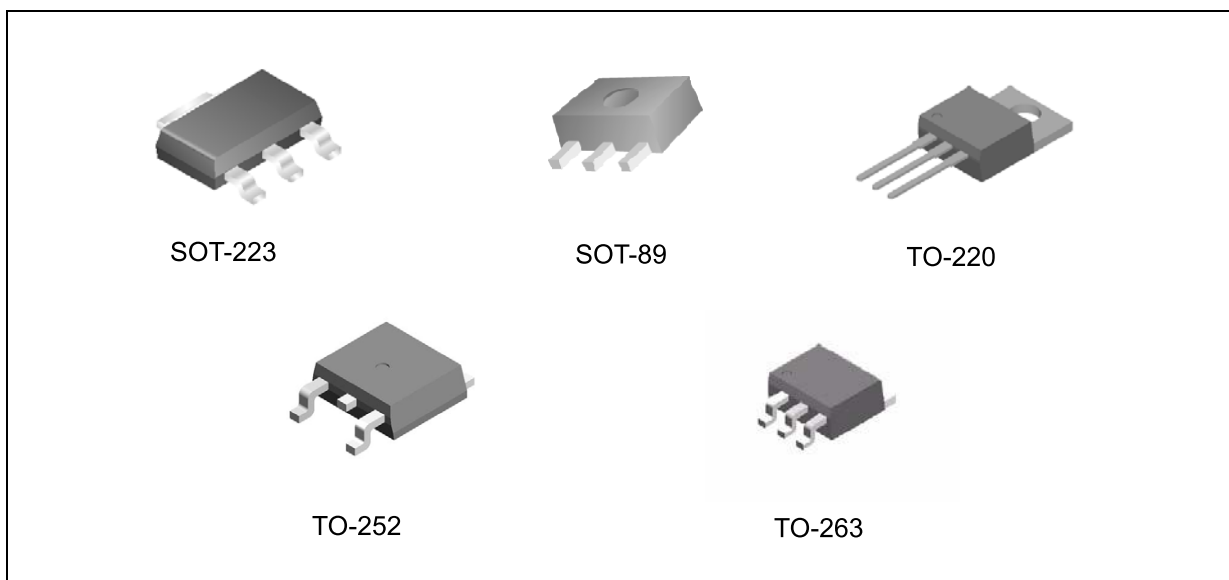


Figure 1. Package Types of AS1117