

# RS1117A

## 1.0A Low Dropout Positive Voltage Regulator

### General Description

The RS1117A is a 1A low-dropout positive voltage regulator. It is available in fixed and adjustable output voltage versions. Over current and thermal protection are integrated onto the chip. Output current will limit as while it reaches the pre-set current or temperature limit. The dropout voltage is specified at 1.40V Maximum at full rated output current. The RS1117A series provides excellent regulation over line, load and temperature variations.

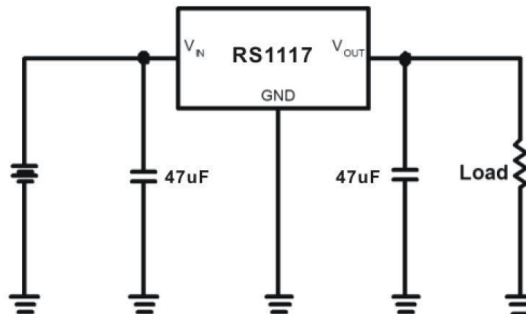
### Features

- Low Dropout Voltage 1.40V (Max.) at 1.0A
- Adjustable or Fixed Voltage (1.2V, 1.8V, 2.5V, 3.3V and 5.0V)
- Over Current Protection
- Thermal Overload Protection
- Maximum Line Regulation 0.2%
- Maximum Load Regulation 1.0%
- Adjust Pin Current Less Than 120uA

### Applications

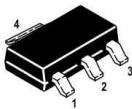
- SCSI-2 Active Termination
- High Efficiency Linear Regulators
- 5V to 3.3V Voltage Converter
- Battery Charger
- Battery Management Circuits For Notebook And Palmtop PCs
- Core Voltage Supply: FPGA, PLD, DSP, CPU

### Application Circuits



### Pin Assignments

SOT-223



| PACKAGE | PIN  | SYMBOL  | DESCRIPTION                                    |
|---------|------|---------|--|
| SOT-223 | 1    | ADJ/GND | Ground Pin or ADJ Terminal Pin for Adjustable. |
|         | 2, 4 | VOUT    | Regulator Output Pin                           |
|         | 3    | VIN     | Regulator Input Pin                            |



This integrated circuit can be damaged by ESD. Orister Corporation recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.