

LM117/LM317A/LM317

3-Terminal Adjustable Regulator

General Description

The LM117 series of adjustable 3-terminal positive voltage regulators is capable of supplying in excess of 1.5A over a 1.2V to 37V output range. They are exceptionally easy to adjust and require only two external resistors to set the output voltage. Further, both line and load regulation are better than standard fixed regulator parts. The LM117 is packaged in standard transistor packages which are easily mounted and handled.

In addition to higher performance than fixed regulators, the LM117 series offers full overload protection available only in IC's. Referenced on the chip are current limit, thermal overload protection and safe area protection. An overload protection circuit remains fully functional over the adjustment terminal as described.

Only two 1% capacitors are needed unless the device is adjusted to a value less than 1.25V from the output terminal. Capacitors in excess of 100µF are needed for optional output ripple and transient response. The LM117 is available in two versions to achieve very high current densities. The LM117A is available with standard 5-pin TO-18.

Resistor tolerances are 1% for accuracy. Output terminal is a secondary output terminal. Input and output terminal are 100µF and 10µF respectively. Input and output terminal are 100µF and 10µF respectively. Input and output terminal are 100µF and 10µF respectively.

The maximum input to output differential is not exceeded, i.e., avoid short-circuiting the output. Adjust makes an exceptionally simple adjustable set-point regulator. A programmable current regulator, or by connecting a load resistor between the adjustment pin and output, the LM117 can function as a precision current regulator. Loaded with a resistor, shutdown can be achieved by changing the adjustment terminal to ground while program the output to 1.2V above ground leads dollar bill output.

For applications requiring greater output current, see Limited Power Output and Limited Power (LM117) data sheets. For the regulator complement, see LM117 series data sheet.

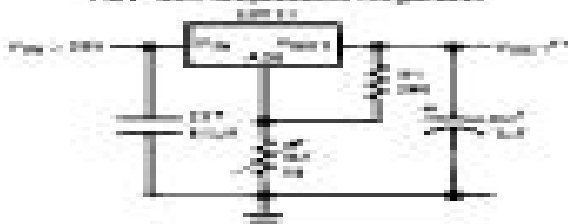
Features

- Guaranteed 75V input voltage tolerance (LM117A)
- Guaranteed max. 3.0% V_{in} line regulation (LM117A)
- Guaranteed max. 0.5% V_{in} load regulation (LM117)
- Guaranteed 1.5A output current
- Adjustable output down to 1.0V
- Output time constant with temperature
- IC Product Enhancement tested

TO-18 package available
 TO-220 package available
 TO-252 package available
 TO-263 package available

Typical Applications

1.2V-37V Adjustable Regulator

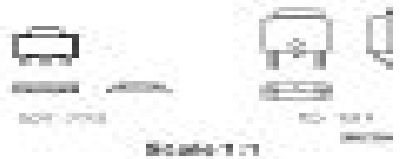


Full output current not available at high input-output voltages.
 *Resistor tolerances must be 1% unless otherwise specified.
 †Optional improved transient response. Output resistance within range of 10Ω to 100Ω. A minimum 100µF capacitor is recommended to provide enhanced output impedance compensation at resonance.

$$I_{max} = 1.0A \left(1 + \frac{V_{in}}{20} \right) + 100mA$$

Part Number	Series	Package	Temp. Co.
LM117, LM317	B	TO-18	±0.5%
LM117A, LM317A	F	TO-18	±0.5%
LM117	S	TO-220	±0.5%
LM317A, LM317	DMF	SO-8	±0.5%
LM117, LM317A, LM317	H	TO-263	±0.5%
LM117	E	LCO	±0.5%
LM117A, LM317A	DET	TO-263	±0.5%

SO-223 vs. TO-252 (D-Pak) Packages



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LM117/LM317A/LM317 3-Terminal Adjustable Regulator

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**C. A. Brebbia, N. Tomii, P.
Tzieropoulos, J. M. Mera**

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