



TS1117

800mA Low Dropout Positive Voltage Regulator

TO-220



TO-263



TO-252



SOT-223



Pin assignment:
1. Ground / Adj
2. Output
3. Input

Low Dropout Voltage 1.3V max.

General Description

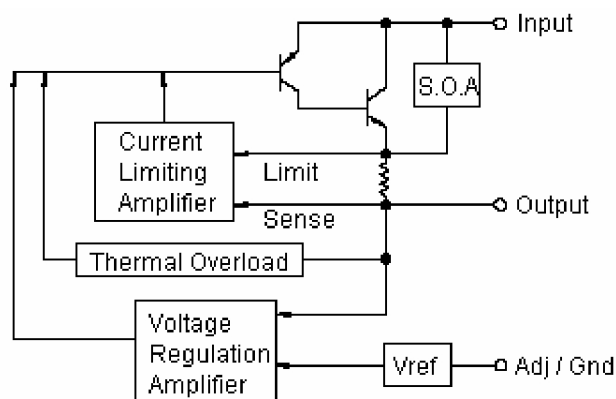
The TS1117 Series are high performance positive voltage regulators are designed for use in applications requiring low dropout performance at full rated current, Additionally, the PJ1117 Series provides excellent regulation over variations due to changes in line, load and temperature. Outstanding features include low dropout performance at rated current, fast transient response, internal current limiting and thermal shutdown protection of the output device. The TS1117 Series are three terminal regulators with fixed and adjustable voltage options available in popular packages.

This series is offered in 3-pin TO-263, TO-220, TO-252 and SOT-223 package.

Features

- ✧ Low dropout performance 1.3V max.
- ✧ Full current rating over line and temperature.
- ✧ Fast transient response
- ✧ $\pm 2\%$ Total output regulation over line, load and temperature
- ✧ Adjust pin current max 90 μ A over temperature
- ✧ Line regulation typical 0.015%.
- ✧ Load regulation typical 0.05%.
- ✧ Fixed/adjustable output voltage
- ✧ TO-220, TO-263 TO-252 and SOT-223 package

Block Diagram



Ordering Information

Part No.	Operating Temp. (Ambient)	Package
TS1117CZ-xx	-20 ~ +85 °C	TO-220
TS1117CM-xx		TO-263
TS1117CP-xx		TO-252
TS1117CW-xx		SOT-223

Note: Where xx denotes voltage option, available are 5.0V, 3.3V, 2.5V and 1.8V. Leave blank for adjustable version. Contact factory for additional voltage options.

Absolute Maximum Rating

Input Supply Voltage	V _{in}	12	V
Operation Input Supply Voltage	V _{in} (operate)	7	V
Power Dissipation	P _D	Internally Limited	W
Operating Junction Temperature Range	T _J	-25 ~ +150	°C
Storage Temperature Range	T _{STG}	-65 ~ +150	°C
Lead Soldering Temperature (260 °C)			
TO-220 / TO-263 Package		10	S
TO-252 / SOT-223 Package		5	