

DESCRIPTION

LC1117 is a series of low dropout three-terminal regulators with a dropout of 1.3V at 1A load current. LC1117 features a low standby current 2mA.

Other than a fixed version ($V_{out} = 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, \text{ and } 12V$), LC1117 has an adjustable version, which can provide an output voltage from 1.25 to 12V with only two external resistors.

LC1117 offers thermal shut down and current limit functions, to assure stability of chip and power system. Trimming technique is used to guarantee output voltage accuracy within $\pm 2\%$. Other output voltage accuracy such as $\pm 1\%$ can be customized on demand.

LC1117 is available in SOT-223, TO-252 power packages.

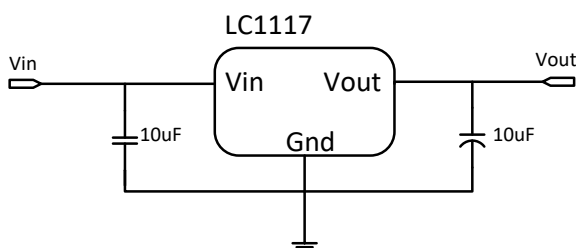
FEATURES

- Other than a fixed version and an adjustable version, output value can be customized on demand.
- Maximum output current is 1A
- Range of operation input voltage: Max 18V
- Standby current: 2mA (typ.)
- Line regulation: 0.1%/V (typ.)
- Load regulation: 10mV (typ.)
- Environment Temperature: $-40^{\circ}C \sim 85^{\circ}C$
- Compatible with tantalum capacitor, electrolytic capacitor and MLCC.

APPLICATIONS

- Power Management for Computer Mother Board, Graphic Card
- LCD Monitor and LCD TV
- DVD Decode Board
- ADSL Modem
- Post Regulators for Switching Supplies

TYPICAL APPLICATION



Application circuit of LC1117 fixed version

TYPICAL ELECTRICAL CHARACTERISTIC

