



LC1215

16V 500mA Low Consumption Linear Regulator

DESCRIPTION

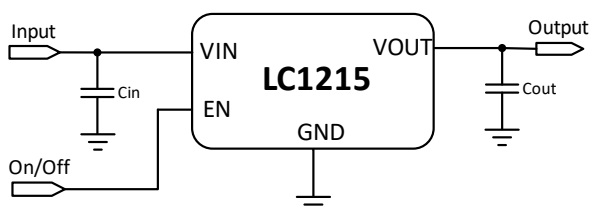
LC1215 series is a group of positive voltage output, low power consumption, low dropout voltage regulator. It can provide 300mA output current when input / output voltage differential drops to 600mV ($V_{out}=3.3V$), and it also provides foldback short-circuit protection, thermal protection and output current limit function. The very low power consumption of LC1215 ($I_q=10\mu A$) can greatly improve natural life of batteries.

LC1215 can provide output value in the range of 1.2V~5.0V in 0.1V steps. It also can customize on command.

LC1215 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module.

LC1215 has well load transient response and good temperature characteristic, And it uses trimming technique to guarantee output voltage accuracy within $\pm 2\%$.

TYPICAL APPLICATION



NOTE: Input capacitor ($C_{in}=1\mu F$) and Output capacitor ($C_{out}=1\mu F$) are recommended in all application circuit. Ceramic capacitor is recommended.

FEATURES

- Low Power Consumption: 10 μA (Typ.)
- Maximum Output Current: 500mA
- Small Dropout Voltage
600mV@300mA ($V_{out}=3.3V$)
1.2V@500mA ($V_{out}=3.3V$)
- Input Voltage Range: 3V~16V
- Output Voltage Range: 1.2V~5.0V (customized on command in 0.1V steps)
- Highly Accurate: $\pm 2\%$ ($\pm 1\%$ customized)
- Output Current Limit: 650mA

APPLICATIONS

- Battery Powered equipment
- Power Management of MP3、PDA、DSC、Mouse、PS2 Games
- Reference Voltage Source Regulation after Switching Power

ELECTRICAL CHARACTERISTICS

