LC1203

REV1.0-Revised DEC 2007

250mA Low Consumption Linear Regulator

DESCRIPTION

LC1203 series is a group of positive voltage output, low power consumption, low dropout voltage, three terminal regulator. It can provide 250mA output current when input / output voltage differential drops to 400mV（Vin =4.0V,Vout=3.0V）,The very low power consumption of LC1203 （Iq=3.0uA） can greatly improve natural life of batteries.

LC1203 can provide output value in the range of 1.2V~6.0V in 0.1V steps. It also can customized on command.

LC1203 includes high accuracy voltage reference, error amplifier, current limit circuit and output driver module.

LC1203 has well load transient response and good temperature characteristic, which can assure the stability of chip and power system. And it uses trimming technique to guarantee output voltage accuracy within±2%.

FEATURES

- Low Power Consumption:3.0uA（Typ.）
- Maximum Output Current:250mA
- Small Dropout Voltage
  170mV@100mA (Vout=3.0V)
  400mV@250mA (Vout=3.0V)
- Input Voltage Range:1.5V~10V
- Output Voltage Range:1.2V~6.0V (customized on command in 0.1V steps)
- Highly Accurate:±2%(±1% customized)
- Output Current Limit

APPLICATIONS

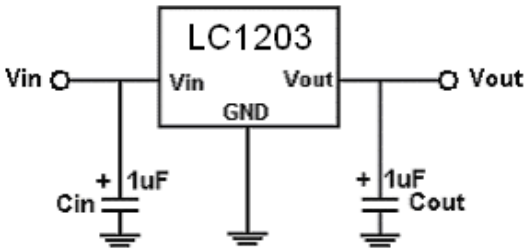
- Battery Powered equipment
- Power Management of MP3、PDA、DSC、Mouse、PS2 Games
- Reference Voltage Source Regulation after Switching Power

ORDERING INFORMATION

LC1203 [1] [2] [3] [4] [5]

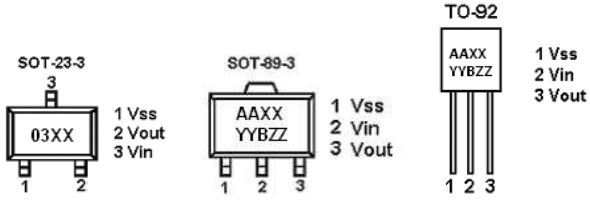
Code	Description
[1]	Temperature&Rohs: C:-40~85°C ,Pb Free Rohs Std.
[2]	Package type: B3:SOT-23-3 C3:SOT-89-3 H:TO-92
[3]	Packing type: TR:Tape&Reel (Standard) BG:Bag (TO-92)
[4]	Output voltage: e.g. 12=1.2V 15=1.5V 60=6.0V
[5]	Voltage accuracy: 1=±1% Blank(default)=±2%

TYPICAL APPLICATION



NOTE: Input capacitor (Cin=1uF) and Output capacitor (Cout=1uF) are recommended in all application circuit. Tantalum capacitor is recommended.

PIN CONFIGURATION



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