



LC1201

0.8uA Low Power Consumption Regulator with Enable

DESCRIPTION

The LC1201 is a group of positive voltage output, low power consumption, low dropout voltage regulator. The very low power consumption of LC1201 (0.8uA, Typ) can greatly improve natural life of batteries. The LC1201 includes high accuracy voltage reference, error amplifier and output driver module with discharge capability. And it also provides foldback short-circuit protection, thermal protection and output current limit function.

The LC1201 can provide output value of fixed version as 1.2V, 1.8V, 2.5V, 2.8V, 3V, and 3.3V. It also can be customized on command.

LC1201 is available in SOT23-5 and DFN1x1-4 which are lead free.

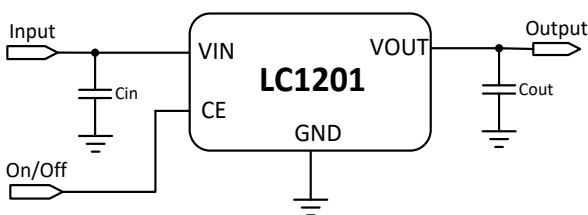
FEATURES

- Maximum output current:300mA
- Low power consumption: 0.8uA (Typ.)
- Stand-by current: less than 0.1uA
- Operating input voltage:1.8V~5.5V
- Low dropout voltage:
150mV @100mA @Vout=3.3V (Typ.)
- Low temperature coefficient: $\pm 100\text{ppm}/^\circ\text{C}$
- Build-in chip enable and discharge circuit
- Built-in output current limit circuit

APPLICATIONS

- Mobile phones
- Battery powered equipment
- Cordless phones, wireless communication equipment
- Cameras, video recorders
- Portable AV equipment
- PDAs

TYPICAL APPLICATION



Note: Input capacitor ($C_{in}=1\mu\text{F}$) and output capacitor ($C_{out}=1\mu\text{F}$) are recommended in all application circuit.