

CMOS Regulator Monolithic IC MM327□ Series

Outline

This IC is a regulator IC that provides ultra-low current consumption (0.8μA), and low input voltage (1.2V~6V), and has been developed using the CMOS process. Moreover, in addition to characteristics such as ultra-low current consumption and low dropout voltage, it supports long lifetime of batteries with a chip enable function.

The mount area is set to 1.10x1.40mm using a surface mount type leadless 4pin package, which realizes microminiaturization.

Features

1. Input Voltage Range	1.2~6V
2. Output Voltage Range	0.8~5.0V
3. Output Voltage accuracy	V _{OUT} ±2%
4. Maximum Output Current	150mA
5. Supply Current	0.8μA typ. (no Load Input Current) 0.1μA typ. (OFF)
6. Output Capacitor	0.1μF
7. Dropout Voltage	30mV Typ (I _O =1mA)
8. Chip enable function	High: ON, Low: OFF
9. Output Short-Circuit Current	60mA

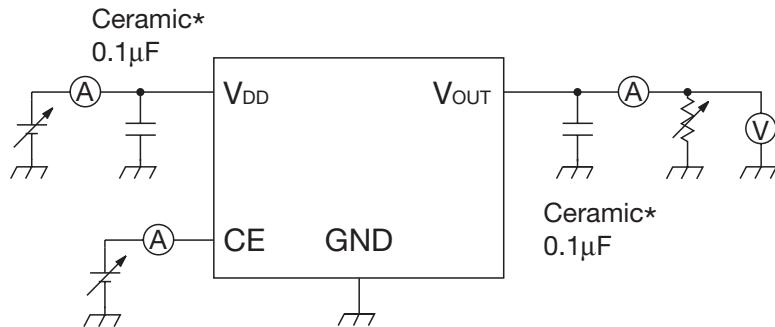
Package

SOT-25A
SC-82ABA
SC-82ABB
SSON-4A

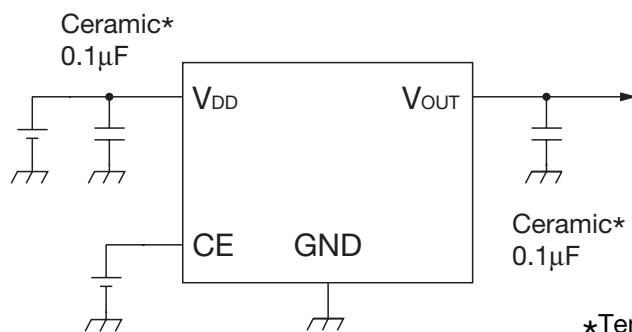
Applications

1. Cellular Phone
2. Portable Game Device
3. Digital Cameras
4. Note PCs
5. AV general-purpose device

Measuring Circuit



Typical Application Circuit



*Temperature Characteristics: B

(reference example of external parts)

- Output Capacitor Ceramic Capacitor $0.1\mu F$
- Input Capacitor Ceramic Capacitor $0.1\mu F$

Note

1. The output capacitor is required between output and GND to prevent oscillation.
2. It is possible to use a ceramic capacitor.
The ceramic capacitor must be used more than $0.1\mu F$ and B temperature characteristics.
3. The wire of V_{CC} and GND is required to print full ground plane for noise and stability.
4. The input capacitor must be connected a distance of less than 1cm from input pin.
5. In case the output voltage is above the input voltage, the overcurrent flow by internal parasitic diode from output to input.