

MM1866

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Overview

This IC is a small, stable power supply with output voltage precision of $\pm 2\%$ (when $I_o = 250\text{mA}$), maximum output current of 1000mA, and Dropout Voltage of 0.2V typ. at 500mA.

Output noise reduction and output ON/OFF control pins are provided, making it ideal for portable equipment.

Application

- Audio visual equipment
- Office equipment / Printer
- Home appliance equipment

Features

Standard

Main specifications

Output current [mA]	1000
Absolute maximum rating [V]	12.0
Recommended operating voltage Min. [V]	2.20
Recommended operating voltage Max. [V]	10.0

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Output voltage Min. [V]	1.50
Output voltage Max. [V]	5.00
Output voltage accuracy [%]	±2.0
No-Load Input Current [μA]	2500.0
Dropout Voltage [V]	0.20
PSRR [dB]	65
Output capacitor [μF]	1.00
Circuit structure	1ch LDO
Operating ambient temperature Min. [deg.C]	-40
Operating ambient temperature Max. [deg.C]	85
OFF input current Typ. [μA]	0.00
Output noise voltage Typ. [μVrms]	45
Protection function	OCP, TSD
Additional function	ON/OFF control, Noise reduction capacitor

Package

HSOP-8A

TO-252C

Case Studies



No amplifier or software design required. Development of an LDO for automobiles with open load/short circuit detection function. [Power Supply IC]