

MM1898

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Overview

This IC is a low noise negative output 200mA LDO by bipolar process. The target applications by noise reduction pin are for a power supply of highly sensitive image sensor. The output range is from -0.9V to -5.0V , it can use to the negative power supply of CMOS image sensor.

Application

- Photographing / Imaging device
- Power supply for high-sensitivity image sensor
- Power supply for negative voltage circuit

Features

Negative output

Main specifications

Output current [mA]	200
Absolute maximum rating [V]	-12.0
Recommended operating voltage Min. [V]	-10.00
Recommended operating voltage Max. [V]	-2.0

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Output voltage Min. [V]	-5.00
Output voltage Max. [V]	-0.90
Output voltage accuracy [%]	±1.0
No-Load Input Current [μA]	160.0
Dropout Voltage [V]	0.50
PSRR [dB]	70
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]	3.00
Output noise voltage Typ. [μVrms]	30
Protection function	OCP, TSD, UVLO
Additional function	ON/OFF control (positive voltage control), Auto discharge, Noise reduction capacitor

Package

SOT-25A

SSON-6A

Case Studies



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