

MM1937

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Overview

This IC is voltage control adjustable output voltage 300mA LDO. The output voltage can be linearly changed by input voltage at Vadj pin. When used as a power supply for the DC-Fan motor, Adjustable output voltage can make it easy to control air flow and reducing noise without an external parts.

Application

- Audio visual equipment
- Office equipment / Printer
- In-vehicle infotainment device
- Power supply for DC fan

Features

Adjustable output by voltage control

Main specifications

Output current [mA]	300
Absolute maximum rating [V]	16.0
Recommended operating voltage Min. [V]	6.50
Recommended operating voltage Max.	14.0

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[V]	
Output voltage Min. [V]	3.00
Output voltage Max. [V]	10.00
Output voltage accuracy [%]	±2.0
No-Load Input Current [μA]	300.0
Dropout Voltage [V]	0.30
PSRR [dB]	70
Output capacitor [μF]	2.20
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
Protection function	OCP, TSD
Additional function	ON/OFF control, Linearly adjustable output voltage

Package

SOT89-5A

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Case Studies

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