

## MM3871

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## Overview

This IC is a 300mA Low dropout regulator IC with a prevention circuit of rush current. No load input current is 25 $\mu$ A typ, and it reduce transient drop in voltage with high speed response circuit. A rush current prevention circuit can control rush current at start up. The package is a small PLP-4C (1mm x 1mm), ideal for mobile devices.

## Application

- Audio visual equipment
- Portable communication device
- Photographing / Imaging device
- Wearable device

## Features

Fast transient response, Rush current protection

## Main specifications

Output current [mA]	300
Absolute maximum rating [V]	7.0
Recommended operating voltage Min. [V]	2.00
Recommended operating voltage	

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Operating voltage Max. [V]	6.5
Output voltage Min. [V]	1.00
Output voltage Max. [V]	5.00
Output voltage accuracy [%]	±1.0
No-Load Input Current [μA]	25.0
Dropout Voltage [V]	0.62
PSRR [dB]	70
Output capacitor [μF]	0.47
Circuit structure	1ch LDO
Operating ambient temperature Min. [deg.C]	-40
Operating ambient temperature Max. [deg.C]	85
OFF input current Typ. [μA]	0.01
Protection function	OCP, Rush current protection
Additional function	ON/OFF control, Auto discharge

## Package

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PLP-4C

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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]**