

MM3816

2023/07/20

Overview

This IC is a 200mA Low dropout regulator IC with Rush current protection circuit.
No load input current is 42 μ A typ. and it reduce drop voltage for high speed response.
Rush current protection circuit can control rush current.
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 prevention

Main specifications

Output current [mA]	200
Absolute maximum rating [V]	6.5
Recommended operating voltage Min. [V]	1.70
Recommended operating voltage	

MM3816

2023/07/20

Operating voltage Max. [V]	5.5
Output voltage Min. [V]	1.00
Output voltage Max. [V]	5.00
Output voltage accuracy [%]	±1.0
No-Load Input Current [μA]	42.0
Dropout Voltage [V]	0.30
PSRR [dB]	75
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]	0.10
Output noise voltage Typ. [μVrms]	60
Protection function	OCP, Rush current protection
Additional function	ON/OFF control, Auto discharge

Package

PLP-4C

Case Studies



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