

MM3864

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Overview

This IC is a high speed response 300mA regulator IC with low quiescent current and high ripple rejection. No load input current is 20 μ A typ. And ripple rejection is 75dB typ. Dropout voltage is low at 160mV typ. ($I_o=200$ mA) and 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

High ripple rejection

Main specifications

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

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Recommended 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]	20.0
Dropout Voltage [V]	0.24
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]	0.01
Protection function	OCP
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]