

MM3755

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Overview

This IC is a low current consumption 150mA LDO.

The IC can be better low current consumption and load transient by bias boost circuit.

The package is a small PLP-4C (1mm x 1mm), ideal for mobile devices.

Application

- Portable communication device
- Photographing / Imaging device
- Wearable device
- Health care device

Features

Low current consumption

Main specifications

Output current [mA]	150
Absolute maximum rating [V]	7.0
Recommended operating voltage Min. [V]	1.70
Recommended operating voltage	

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Operating voltage Max. [V]	6.0
Output voltage Min. [V]	1.20
Output voltage Max. [V]	5.00
Output voltage accuracy [%]	±0.8
No-Load Input Current [μA]	0.9
Dropout Voltage [V]	0.28
PSRR [dB]	50
Output capacitor [μF]	0.10
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
Additional function	ON/OFF control, Auto discharge

Package

PLP-4C

Case Studies

Development of an LDO for automobiles with open load/short circuit detection function. It offers high precision and reliability in a simple configuration which does not require a current measurement amplifier and easily controlled with software. 【Power Supply IC】