

MM3615

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Overview

This IC is a 300mA LDO with thermal shut-down/temperature sensor.
The temperature sensor monitor a junction temperature in MM3615.
Therefore MM3615 can be shut down, or monitor an abnormal action by a data log.

Application

- Audio visual equipment
- Photographing / Imaging device
- Office equipment / Printer
- Home appliance equipment
- In-vehicle infotainment device

Features

Temperature
sensor

Main specifications

Output current [mA]	300
Absolute maximum rating [V]	7.0
Recommended operating voltage Min. [V]	1.80

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Recommended operating voltage Max. [V]	6.5
Output voltage Min. [V]	0.80
Output voltage Max. [V]	5.00
Output voltage accuracy [%]	±1.0
No-Load Input Current [μA]	90.0
Dropout Voltage [V]	0.24
PSRR [dB]	70
Output capacitor [μF]	1.00
Circuit structure	1ch LDO + Temperature sensor
Operating ambient temperature Min. [deg.C]	-40
Operating ambient temperature Max. [deg.C]	85
OFF input current Typ. [μA]	0.10
Protection function	OCP, TSD
Additional function	ON/OFF control, Auto discharge, Temperature sensor output

Package

SOT-25A

Case Studies



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