

MM1870

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Overview

This IC is a 1.5A LDO with a low saturation voltage.

This device is offered in the PKG TO-252-5 package featuring high heat dissipation and the small-sized PKG HSOP-8 package. It supports reduction of the implementation space.

It includes a thermal shutdown circuit in addition to an over-current protection circuit for protection, and contributes to the reliability improvement of the product.

Application

- Audio visual equipment
- Office equipment / Printer
- Home appliance equipment
- Power supply for CPU Coer

Features

Low output voltage,
Low dropout voltage

Main specifications

Output current [mA]	1500
Absolute maximum rating [V]	12.0
Recommended operating voltage Min.	1.20

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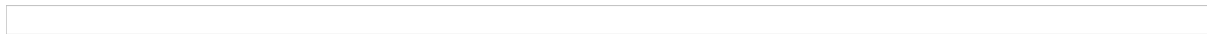
[V]	
Recommended operating voltage Max. [V]	10.0
Output voltage Min. [V]	0.90
Output voltage Max. [V]	5.00
Output voltage accuracy [%]	±2.0
No-Load Input Current [μA]	1000.0
Dropout Voltage [V]	0.26
PSRR [dB]	65
Output capacitor [μF]	1.00
Circuit structure	1ch LDO
Operating ambient temperature Min. [deg.C]	-40
Operating ambient temperature Max. [deg.C]	85
OFF input current Typ. [μA]	0.00
Output noise voltage Typ. [μVrms]	60
Protection function	OCP, TSD
Additional function	ON/OFF control, Noise reduction capacitor

Package

HSOP-8A

TO-252C

Case Studies



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