

MM1920

2023/07/20

Overview

This IC is a 150mA LDO of low operating voltage.

The IC can achieve to operate input voltage 1.2V of one power supply & output voltage 0.4V by bipolar process and original low voltage circuit.

The application can be used for high speed interface power supply.

The small package and an external capacitor 1uF are contributed to small space PCB & low cost.

Application

- Photographing / Imaging device
- Power supply for Low voltage fast speed interface

Features

Low input voltage,
Low output voltage

Main specifications

| | |
|---|------|
| Output current [mA] | 150 |
| Absolute maximum rating [V] | 6.5 |
| Recommended operating voltage Min. [V] | 1.10 |
| Recommended operating voltage | |

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| | |
|--|---|
| Operating voltage Max. [V] | 6.0 |
| Output voltage Min. [V] | 0.40 |
| Output voltage Max. [V] | 1.50 |
| No-Load Input Current [μ A] | 170.0 |
| PSRR [dB] | 65 |
| Output capacitor [μ F] | 1.00 |
| Circuit structure | 1ch LDO |
| Operating ambient temperature Min. [deg.C] | -40 |
| Operating ambient temperature Max. [deg.C] | 85 |
| OFF input current Typ. [μ A] | 0.10 |
| Output noise voltage Typ. [μ Vrms] | 30 |
| Protection function | OCP, TSD |
| Additional function | ON/OFF control, Noise reduction capacitor |

Package

SSON-6A

Case Studies



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