

MM3532T

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Overview

This IC is a multi-out*1 150mA regulator with output voltage switching function.

Instead of conventional 2 power supply structure for the 1.8 V \Leftrightarrow 3.3 V output voltage of the SDXC card, it is now possible to structure with 1 product by the output switching CV terminal, realizing simplification and low power consumption of the system. It can also support the low power consumption type application by arbitrary voltage setting.

There are 2 types of output current, 150mA(MM3532T)/500mA(MM3532A), supporting wide range of applications.

The package has adopted small and high heat dissipation type SSON-6A (1820 size) that is appropriate for high density implementation.

*1 Multi-Out

A function to switch the output voltage value (VOUT) between VOUT- H / VOUT- L by switching the voltage Low/High applied to the output voltage control terminal (CV).

VOUT can be set to VOUT- H by setting the CV terminal to Low, and VOUT can be set to VOUT- L by setting the CV terminal to High.

In case of SDXC card support, it will be VOUT- H = 3.3 V and VOUT- L = 1.8 V.

Application

- Audio visual equipment
- Portable communication device
- Photographing / Imaging device
- Office equipment / Printer
- Power supply for memory card

Features

Multi-out for SDXC

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Main specifications

| | |
|--|---|
| Output current [mA] | 150 |
| Absolute maximum rating [V] | 7.0 |
| Recommended operating voltage Min. [V] | 1.60 |
| Recommended operating voltage Max. [V] | 6.0 |
| Output voltage Min. [V] | 1.20 |
| Output voltage Max. [V] | 5.00 |
| Output voltage accuracy [%] | ±1.0 |
| No-Load Input Current [μA] | 50.0 |
| Dropout Voltage [V] | 0.13 |
| PSRR [dB] | 70 |
| 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] | 0.10 |
| Protection function | OCP, TSD |
| Additional function | ON/OFF control, Auto discharge, Output voltage switching function |

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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]