

MM1936

2024/01/16

Overview

This IC is a 100mA LDO with connection error detection for antenna.

The IC supplies the power for external connection equipment of car navigation (GPS, TV, Microphone), and detect open or short-circuit of output load.

To shut down LDO output automatically when short detection, it also improve safety.

Application

- In-vehicle infotainment device
- Power supply for antenna

Features

Detecting for connected device

Main specifications

Output current [mA]	100
Absolute maximum rating [V]	16.0
Recommended operating voltage Min. [V]	3.40
Recommended operating voltage Max. [V]	14.0

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Output voltage Min. [V]	3.00
Output voltage Max. [V]	8.00
Output voltage accuracy [%]	±2.0
No-Load Input Current [μA]	400.0
Dropout Voltage [V]	0.20
PSRR [dB]	70
Output capacitor [μF]	2.20
Circuit structure	1ch LDO + Connection error detection
Operating Ambient Temperature Min. [deg.C]	-40
Operating Ambient Temperature Max. [deg.C]	85
OFF input current Typ. [μA]	0.10
Open detection accuracy [%]	±10
Short detection accuracy [%]	±15
Protection function	OCP, TSD, Reverse current protection
Additional function	ON/OFF control, Connection error detection (open/short flag output)

Package

SSON-10B



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Case Studies

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