

MM1926

2024/01/16

Overview

This IC is a secondary 250mA LDO with connection error detection.

The IC supplies the power for external connection equipment of car navigation (GPS/TV/Radio/Microphone/Camera), and detect open/short-circuit of output. Open/Short detection function can be used in stand-alone without ADC and high accuracy detection by individual setting.

It can be easily to configure power supply circuit by the power supply fault protection and short-flag delay function for the rush current.

Application

- In-vehicle infotainment device
- Power supply for antenna

Features

Detecting for connected device

Main specifications

Output current [mA]	250
Absolute maximum rating [V]	16.0
Recommended operating voltage Min. [V]	2.50
Recommended operating voltage	

MM1926

2024/01/16

Operating voltage Max. [V]	14.0
Output voltage Min. [V]	3.00
Output voltage Max. [V]	10.00
Output voltage accuracy [%]	±2.0
No-Load Input Current [μA]	200.0
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 [%]	±15
Short detection accuracy [%]	±25
Protection function	OCP, TSD, Reverse current protection
Additional function	ON/OFF control, Connection error detection (open/short flag output)

Package

[HSOP-8E](#)

[SSON-10B](#)

Latest News

2023.09.26

[Engineering Information] "What is a shunt regulator?" is available now

[All News](#)

Case Studies

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