

## MM1431DN

2023/07/20

## Overview

This IC is adjustable shunt regulator, which provides a highly accurate bandgap reference voltage. The output voltage can be adjusted to any value between reference voltage VREF and 35V with two external resistors. Moreover, there are a lot of ranges of the application as a zener diode besides the replacement is possible because it has steep turn-on characteristics.

## Features

- High accuracy reference voltage

## Main specifications

Absolute maximum rating	Cathode to Anode voltage Min. [V]	Cathode to Anode voltage Max. [V]	Cathode current Min. [mA]	Cathode current Max. [mA]	Reference voltage Typ. [V]	Reference voltage accuracy Typ. [%]
35	VREF	35	0.60	50	2.495	±0.4
Minimum cathode current Typ. [mA]	Off-state cathode current Typ. [μA]	Dynamic impedance Typ. [Ω]	Operating ambient temperature Min. [deg.C]	Operating ambient temperature Max. [deg.C]		
0.30	0.1	0.4	-30	105		

## Package

SOT-23A

## Case Studies



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