

MM1530CU

2023/07/20

Overview

This IC is adjustable shunt regulator, which provides a high accuracy bandgap reference voltage. The output voltage can be adjusted to any value between reference voltage V_{Ref} and 12V 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. [%] |
|---|---|---|--|---------------------------------|--|---|
| 12 | VREF | 12 | 0.30 | 15 | 1.270 | ±0.8 |
| 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] | |
| 0.15 | 0.1 | 0.4 | -30 | | 105 | |

Package

SC-82ABB

Case Studies



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