

LM136-2.5/LM236-2.5/LM336-2.5V Reference Diode

General Description

The LM136-2.5/LM236-2.5 and LM336-2.5 integrated circuits are precision 2.5V shunt regulator diodes. These monolithic IC voltage references operate as a low-temperature-coefficient 2.5V zener with 0.2Ω dynamic impedance. A third terminal on the LM136-2.5 allows the reference voltage and temperature coefficient to be trimmed easily.

The LM136-2.5 series is useful as a precision 2.5V low voltage reference for digital voltmeters, power supplies or op amp circuitry. The 2.5V make it convenient to obtain a stable reference from 5V logic supplies. Further, since the LM136-2.5 operates as a shunt regulator, it can be used as either a positive or negative voltage reference.

The LM136-2.5 is rated for operation over -55°C to $+125^{\circ}\text{C}$ while the LM236-2.5 is rated over a -25°C to $+85^{\circ}\text{C}$ temperature range.

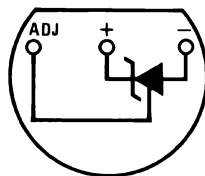
The LM336-2.5 is rated for operation over a 0°C to $+70^{\circ}\text{C}$ temperature range. See the connection diagrams for available packages.

Features

- Low temperature coefficient
- Wide operating current of 400 μA to 10 mA
- 0.2Ω dynamic impedance
- $\pm 1\%$ initial tolerance available
- Guaranteed temperature stability
- Easily trimmed for minimum temperature drift
- Fast turn-on

Connection Diagrams

TO-92
Plastic Package

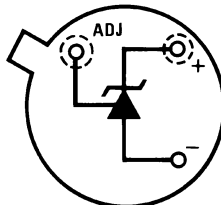


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Bottom View

Order Number LM336Z-2.5 or LM336BZ-2.5
See NS Package Number Z03A

TO-46
Metal Can Package

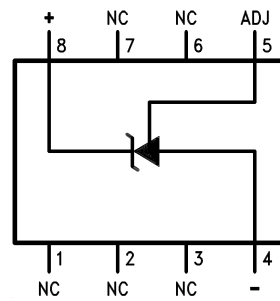


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Bottom View

Order Number LM136H-2.5,
LM136H-2.5/883, LM236H-2.5,
or LM236AH-2.5
See NS Package Number H03H

SO Package



00571512

Top View

Order Number LM236M-2.5,
LM236AM-2.5, LM336M-2.5
or LM336BM-2.5
See NS Package Number M08A