

Product Overview

LM431SB: Adjustable/2.5V, 1% Tolerance Shunt Regulator

For complete documentation, see the data sheet.

The LM431SA/LM431SB/LM431SC are three terminal output adjustable regulators with thermal stability over operating temperature range. The output voltage can be set any value between VREF (approximately 2.5 V) and 36 V with two external resistors. These devices have a typical dynamic output impedance of 0.2Ω . Active output circuit provides a sharp turn-on characteristic, making these devices excellent replacement for Zener Diodes in many applications.

Features

- Programmable Output Voltage to 36 V
- Low Dynamic Output Impedance 0.2Ω Typical
- Sink Current Capability of 1.0 to 100 mA
- Equivalent Full-Range Temperature Coefficient of 50 ppm/°C Typical
- Temperature Compensated for Operation Over Full Rated Operating Temperature Range
- Low Output Noise Voltage
- Fast Turn-on Response

Applications

- This product is general usage and suitable for many different applications.

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	$V_{(BR)}$ Typ (V)	Tolerance (%)	I_O Typ (mA)	I_R Min (mA)	V_F Max (V)	T_A Min (°C)	T_A Max (°C)	Package Type
LM431SBCM32X	0.074	Pb-free Halide free non AEC-Q and PPAP	Active	Adjustable	2.5	1	-	0.0015	36	-25	85	SOT-23-3
LM431SBCM3X	0.0624	Pb-free Halide free non AEC-Q and PPAP	Active	Adjustable	2.5	1	-	0.0015	36	-25	85	SOT-23-3
LM431SBCMFX	0.0591	Pb-free Halide free non AEC-Q and PPAP	Active	Adjustable	2.5	1	-	0.0015	36	-25	85	SOT23-FL3L
LM431SBIMFX	0.12	Pb-free Halide free non AEC-Q and PPAP	Active	Adjustable	2.5	1	-	0.0015	36	-40	85	SOT23-FL3L

For more information please contact your local sales support at www.onsemi.com.

Created on: 7/30/2021