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Adjustable Low Voltage Shunt Regulator

Product Description

The AHK432 PowerManager™ is part of AnalogicTech's Total Power Management™ IC family. It is a MicroPower™ low voltage adjustable shunt reference with thermal stability guaranteed over the full industrial temperature range. This 3-terminal regulator has an output voltage range that extends from V_{REF} (1.24V) to 20V, giving designers outstanding flexibility in the development of power supplies and instrumentation. With a low operating current of 60μA, the AHK432 is well suited for battery-powered portable electronic applications. It also has a sharp turn-on characteristic and a dynamic resistance of only 250mΩ making it an excellent replacement for zener diodes in low tempco designs. The AHK432 is available in the surface-mount 3 or 5 pin SOT-23. Three voltage tolerance options are offered in each package: ±0.5%, ±1%, and ±2%.

Applications

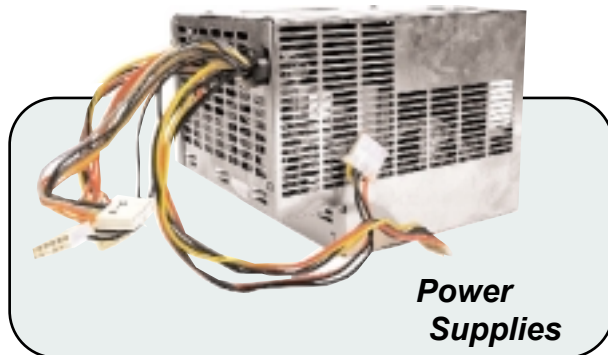
- ▶ Notebook Computers
- ▶ Switching Power Supplies
 - ▶ Voltage reference
 - ▶ Isolated Feedback
- ▶ Battery Chargers
- ▶ Linear Regulators
 - ▶ External Reference for Linear regulators
 - ▶ Use with external power transistor
- ▶ Instrumentation
- ▶ Medical Electronics*
- ▶ Global voltage reference for multiple power supplies

Cross Reference

- ▶ Semtech SC431L
- ▶ TI, ON Semi TLV431A
- ▶ Fairchild RC431A
- ▶ Astec, Alpha AS432
- ▶ Linfinity LX432



**Notebook
Computers**



**Power
Supplies**

**For samples, fax request to: AHK432 PROMO (408) 524-9689
or e-mail to : sales@analogictech.com**

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Adjustable Low Voltage Shunt Regulator

Cross Reference					
Company	Semtech	TI, ON Semi	Fairchild	Astec, Alpha	Linfinity
Part Number	SC431L	TLV431A	RC431A	AS432	LX432
Advantage	Greater Stability (down to 0.1 μ F)	Greater Current Range and Greater Stability (down to 0.1 μ F)	Higher Max Voltage	Lower IQ	Regulates at rated minimum current

Competitive Benefits

- ▶ Temperature drift curvature correction for low tempco.
- ▶ High accuracy $\pm 0.5\%$ available.

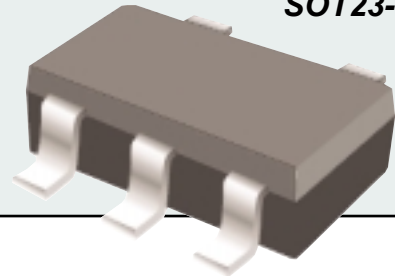
▶ Application Benefits

- ▶ Useful in 3V power supplies where 2.5V references don't have enough headroom.
- ▶ Ideal replacement for low voltage zener diode references.

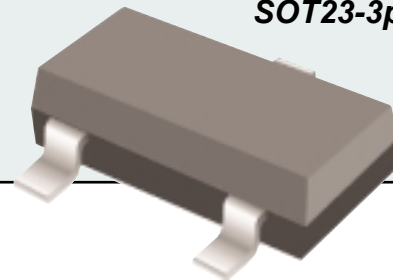
▶ Availability

- ▶ SOT-23 3-pin and 5-pin package.
- ▶ Samples available now.
- ▶ Mass production available now.
- ▶ Pricing starts at US\$0.50 in 1000 unit quantities.

SOT23-5pin



SOT23-3pin



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