DESCRIPTION

The RS432 series are three-terminal adjustable regulators with guaranteed thermal stability over applicable temperature ranges. The output voltage may be set to any value between V_{REF} (approximately 1.24 volts) and 18 volts with two external resistors. These devices have a typical dynamic output impedance of 0.2Ω. Active output circuitry provides a very sharp turn-on characteristic, making these devices excellent replacement for zener diodes in many applications. The RS432 is available in a small SOT-23 and TO-92 packages.

FEATURES

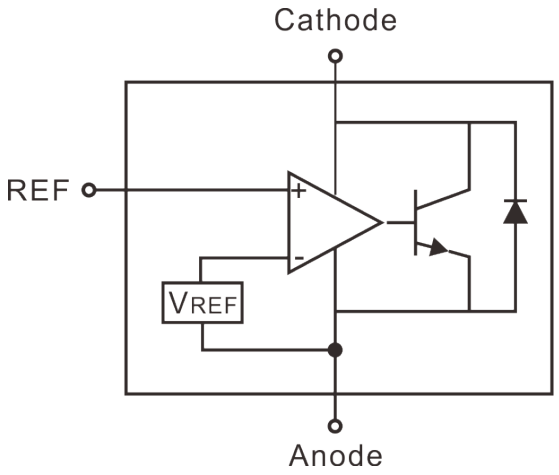
- Programmable precise output voltage from 1.24V to 16V
- High stability under capacitive load
- Low dynamic output resistance: 0.2Ω typical
- Fast turn on response
- Low output noise
- Wide operating range of -40 to 125 °C
- Low equivalent full-range temperature coefficient with 50ppm/ °C typical
- SOT-23 and TO-92 packages
- RoHS compliant and 100% lead (Pb)-free

APPLICATIONS

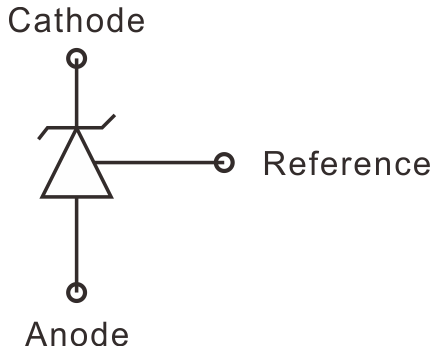
- Opto-coupler linearization
- Linear regulators
- Improved zener
- Variable reference

BLOCK DIAGRAM

FUNCTIONAL BLOCK DIAGRAM



SYMBOL



APPLICATION CIRCUITS

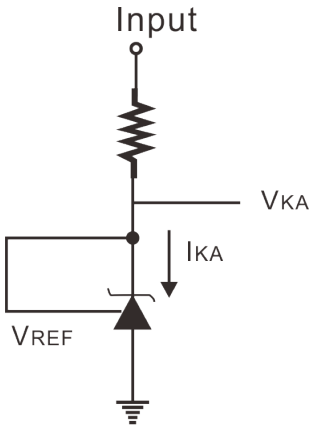
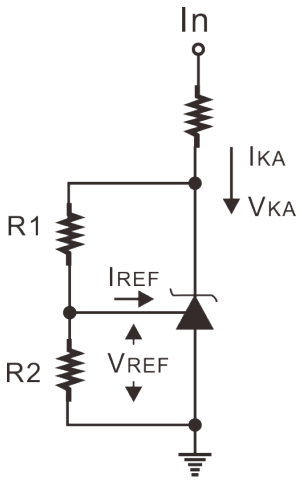


Fig 1. Test Circuit for $V_{KA}= V_{REF}$



Note: $V_{KA}=V_{REF}(1+R1/R2)+I_{REF}xR1$

Fig 2. Test Circuit for $V_{KA} > V_{REF}$

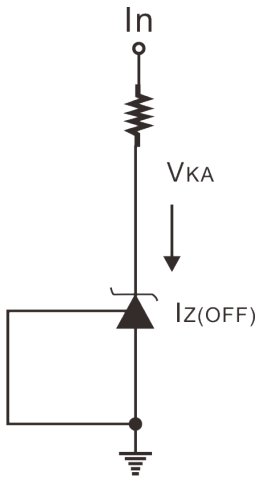


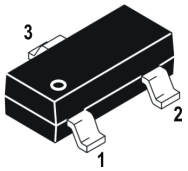
Fig 3. Test Circuit for Off-State Current

ORDERING INFORMATION

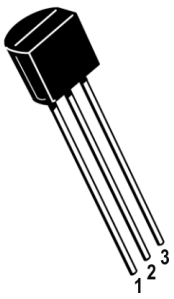
Device	Device Code
RS432 X YY Z	**X** is Reference voltage precision designator: B: 1.24V ±1.0% C: 1.24V ±0.5% **YY** is package designator : N: SOT-23 A: TO-92 **Z** is Lead Free designator : P: Commercial standard, Lead (Pb) Free and Phosphorous (P) Free package

PIN ASSIGNMENTS

SOT-23



TO-92



PIN DESCRIPTION

Description	Pin No.	
	SOT-23	TO92
REFERENCE	1	1
ANODE	3	2
CATHODE	2	3

IMPORTANT NOTICE

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Princeton Technology Corp.
2F, 233-1, Baociao Road,
Sindian Dist., New Taipei City 23145, Taiwan
Tel: 886-2-66296288
Fax: 886-2-29174598
http://www.princeton.com.tw