

TX00AS314TRA Omnipolar Magnetic Switch Sensor

High Sensitivity Omnipolar Push-Pull Output Position TMR Sensor

Problem/Solution

Conventional magnetic sensing technologies, Hall effect sensors, and older magnetic switches cannot provide the accurate sensing and low power needed for use in battery-powered and energy-harvesting devices. The TX00AS314TRA magnetic switch, with more accurate detection and significantly less power draw, is a superior solution. In rugged automotive and industrial environments, TMR (Tunnel Magnetoresistance) switches provide solid-state reliability. The TX00AS314TRA operates in low-voltage circuits (2.8 V to 5.5 V), senses along the x-axis from either magnetic pole, and features compact SOT23-3 packaging.

Technical Resources



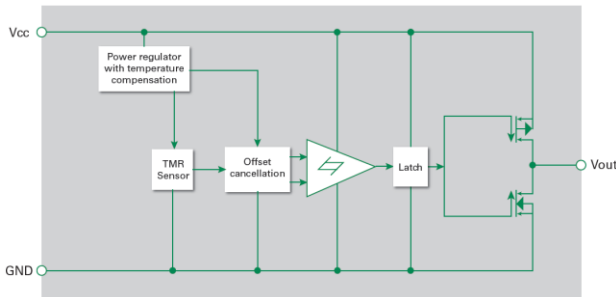
Series Page



Datasheet



Video



Benefits

- High sensitivity and reliability
- Ultra-low power consumption
- High tolerance to external magnetic field interference
- Excellent thermal stability
- Compact size
- Country of Origin South Korea



Features

- TMR technology with 14 Gauss sensitivity
- 1.5 μ A supply current
- Schmitt trigger for noise rejection
- Temperature-compensated supply voltage
- SOT23-3 Package



Markets/Applications

- Consumer electronics/cover and lid detection
- Automotive/door, trunk, and hood sensors
- Industrial automation/proximity detection
- Building automation/smart gas, water, and heat meter tamper detection