



Analog and Discrete
Power Solutions

Advanced InSb Hall Element Sensors from Diodes Incorporated for Rotation and Current Detection Applications

Plano, Texas – March 25, 2025 – Diodes Incorporated (Diodes) (Nasdaq: DIOD) today introduces its first series of advanced InSb Hall element sensors for rotation speed detection and current measurement in consumer applications such as laptops, mobile phones, joysticks, and in motors found in various home appliances. In industrial applications, they are designed for use in position encoders and commutation of brushless motors and fans. The development of these devices addresses the market demand for greater availability of high-sensitivity InSb Hall sensors in the industry-standard 4-pin SOT23-4 and SIP-4 packages.

The [AHE300](#) InSb sensor supports Hall output voltage (V_H) classifications C-G, which range from 168mV to 370mV. The [AHE10x](#) sensors support classifications C-H and deliver V_H up to 415mV. The ultra-high sensitivity of these sensors allows them to operate reliably even in the presence of weak magnetic fields across a broad range of applications. Furthermore, the low offset voltage (5mV to 7mV) of these sensors achieves the level of resolution required to deliver high-accuracy detection capabilities.

The [AHE300](#) sensor operates in the -40°C to $+110^{\circ}\text{C}$ temperatures range, is housed in a SIP-4 (Type MA) package, and is available at \$0.18 in 500-piece quantities.

The [AHE10x](#) devices operate over a wider temperature range (-40°C to $+125^{\circ}\text{C}$), making them sufficiently robust for use in harsh thermal environments. For application flexibility, they are supplied in SOT23-4 packaging with various height options (A, B, C) and are available at \$0.10 in 3,000-piece quantities.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, delivers high-quality semiconductor products to the world's leading companies in the automotive, industrial, computing, consumer electronics, and communications markets. We leverage our expanded product portfolio of analog and discrete power solutions combined with leading-edge packaging technology to meet customers' needs. Our broad range of application-specific products and solutions-focused sales, coupled with global operations including engineering, testing, manufacturing, and customer service, enable us to be a premier provider for high-volume, high-growth markets. For more information, visit www.diodes.com.

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