



Low-Voltage Hall Latches from Diodes Incorporated Enable High-Sensitivity Sensing in Industrial and Automotive Motor Control Applications

Plano, Texas – XXXX XX, 2023 – Diodes Incorporated (Diodes) (Nasdaq: DIOD) today releases a series of automotive-compliant, low-voltage, high-sensitivity Hall-effect latches. Devices in the [AH171xQ](#) series are designed for brushless DC (BLDC) motor commutation speed measurement, angular or linear encoders, and position sensors in demanding automotive and industrial applications.

Device options in this series offer a choice of three high-sensitivity B_{OP} and B_{RP} settings (+/-7Gauss, +/-18Gauss, and +/-50Gauss) with tight operating windows to provide accurate and reliable switching points. These latches have a fast 30kHz sensing bandwidth to support higher rotational speed-sensing, while their high levels of protection against electrostatic discharge (ESD), 8kV human body model (HBM), and 2kV charge device model (CDM) ensure robust operation.

These AEC-Q100 Grade 0 qualified latches, which feature a chopper-stabilized architecture and an internal regulator with temperature compensation, have been optimized to operate reliably across the 2.4V to 5.5V supply range and the entire -40 to +150°C temperature range. They are manufactured in IATF 16949 certified facilities and support PPAP documentation.

The [AH171xQ](#) series latches are available in SOT23 packages at \$0.15 in 1,000 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 discrete, analog, and mixed-signal products and leading-edge packaging technology to meet customers' needs. Our broad range of application-specific solutions and solutions-focused sales, coupled with worldwide operations of 32 sites, including engineering, testing, manufacturing, and customer service, enables us to be a premier provider for high-volume, high-growth markets. For more information visit www.diodes.com.

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