



High-Precision Bidirectional Current Monitors from Diodes Incorporated Enable Accurate Measurement at Low BoM Costs

Plano, Texas – July 13, 2022 – Diodes Incorporated (Diodes) (Nasdaq: DIOD) today announced a series of bidirectional current monitors based on a high-stability zero-drift architecture. These devices are capable of accurately measuring very low sense voltages across a wide range of common-mode voltages. Key applications include laptop PCs, battery chargers, industrial servos, servers, power supply racks in server farms, and robotic systems.

Consisting of six different variants, the DIODES™ [ZXCT199](#) series of current monitor devices each feature a precision chopper stabilized op-amp for high accuracy operation. Their low offset voltage enables current sensing with maximum drops across shunts as low as 10mV full-scale. This allows high currents to be measured via inexpensive, low-value shunt resistor components.

The ZXCT199 series are voltage output type devices, and are available in three fixed voltage gain options in 50V/V, 100V/V, and 200V/V. These devices can measure voltages across shunts at common-mode voltages from -0.1V to 26V, independent of the supply voltage.

The new current sensors from Diodes have an operational temperature range of -40°C to 125°C, exhibiting minimal gain error across this. For the A and B versions, the maximum gain error over temperature is $\pm 1.0\%$, while for the C version, it is $\pm 0.8\%$. Their offset voltage levels are a maximum of $\pm 150\mu\text{V}$ for the A version, $\pm 100\mu\text{V}$ for the B version, and an ultra-low $\pm 80\mu\text{V}$ for the highest precision C version. All variants can be powered via a 2.7V to 26V supply, giving them greater application flexibility. A maximum supply current of just 100 μA is drawn.

The [ZXCT199A](#), [ZXCT199B](#) and [ZXCT199C](#) are available at \$0.21, \$0.23 and \$0.25 respectively in 1000 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 consumer electronics, computing, communications, industrial, and automotive 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.

The Diodes logo is a registered trademark of Diodes Incorporated in the United States and other countries.

DIODES™ is a trademark of Diodes Incorporated in the United States and other countries.

Company Contact:

Diodes Incorporated
Emily Yang
SVP, Worldwide Sales and Marketing
P: 972-987-3900

[Contact Us](#)

Investor Relations Contact:

Shelton Group
Leanne K. Sievers
President

P: 949-224-3874

E: lsievers@sheltongroup.com