



Diodes Incorporated Releases Its First Silicon Carbide Schottky Barrier Diodes (SBD)

Plano, Texas – January 30, 2023 – Diodes Incorporated (Diodes) (Nasdaq: DIOD) today announced the release of its first Silicon Carbide (SiC) Schottky barrier diodes (SBD). The portfolio includes the DIODES™ [DSCxxA065](#) series with eleven products rated at 650V (4A, 6A, 8A, and 10A) and the DIODES™ [DSCxx120](#) series with eight products rated at 1200V (2A, 5A, and 10A).

These wide-bandgap SBDs bring the benefits of significantly improved efficiency and high-temperature reliability, while also responding to market demands for reduced system running costs and low maintenance. The devices are suitable for AC-DC, DC-DC, and DC-AC switching converters, photovoltaic inverters, uninterruptible power supplies, and industrial motor drive applications. These devices can also be used in a variety of other circuits, such as boost converters for power factor correction.

The efficient performance of these SiC devices are superior to those of conventional silicon-based products, and provide power supply designers with uncompromising product performance benefits, such as:

- Negligible switching losses due to low capacitive charge (Q_c) that provide high efficiency in fast switching applications. This is suitable for circuit designs with higher power density and smaller overall solution size.
- Low forward voltage (V_F) that further improves efficiency, reducing power losses and operational costs.
- Reduced heat dissipation that helps lower overall system cooling budgets.
- High surge current capability that increases robustness for better system reliability, while excellent thermal performance reduces build costs.

Three package options include surface mount TO252-2 (Type WX), through-hole TO220AC (Type WX), and ITO220AC (Type WX-NC).

The [DSCxxA065](#) and [DSCxx120](#) series are available from \$1.24 to \$2.33 and \$1.70 to \$6.68 respectively 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 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.

All other trademarks are the property of their respective owners.

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