

For Immediate Release:
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Micross Announces Development of Hermetic Packaging for SemiSouth SiC Ultra High Temperature Applications to 260°C

AUSTIN, TX AND STARKVILLE, MS— Micross Components, Inc. and SemiSouth Laboratories, Inc. announced a collaborative effort to expand SemiSouth's line of Silicon Carbide (SiC) Power JFETs and Schottky Diodes. SemiSouth will provide select JFET and diode die to Micross for packaging and test in metal hermetic packages, Micross will then offer these value-added hermetically packaged versions aimed at the Military, Aerospace and Down-hole Drilling markets. Micross and SemiSouth will draw on each other's respective strengths in order to promote SiC product sales synergy in the worldwide marketplace.

Micross plans to offer screening of the JFETs and Schottky Diodes to military and space specifications such as MIL-PRF-19500 equivalent initially and eventually offering standard certified MIL-PRF-19500 products in the future. The initial Micross SiC product offering will include four 1200V and one 1700V JFETs with 125°C continuous max drain current capability of 4 to 50 amps and low $R_{DS(on)}$, and four 1200 volt Schottky diodes capable of 5 to 30 amps continuous forward current. Operating junction temperature range is -55°C to +200°C (T_J), with special screening up to 260°C upon request.

"This is a significant product addition to our Military & Aerospace products family that will better serve the Satellite customer with state-of-the-art SiC technology for High Power FETs & Diodes. With our Hermetic packaging offering, this also expands the product use for extreme temperatures seen in deep down hole drilling of up to 260°C", says Jeff Kendziorski, Director of Marketing and New Product Development, Micross Components, Inc. Larry Wallace, General Manager – Semiconductor of Micross Components, Inc. added, "We are excited to be working with a leader in Silicon Carbide manufacturing such as SemiSouth."

"We are continuing to search for ways to sell our SiC power electronics products in to hi-rel and mil-aero customers, and are pleased to be working with a well-known Hi-Reliability products vendor such as Micross", says SemiSouth Laboratories Chief Technology Officer and Vice President of Business Development Jeff Casady.

About Micross Components

Micross Components is a global provider of specialized products & services and distributed components for the electronics community. They represent a single source for specialty electronics able to provide leadership in the design, manufacture, logistics and die distribution processes necessary to realize and support an application from start to finish. Micross has been serving the Military & Aerospace customer for over 30 years and has been a certified QML supplier for over 14 years with over 1600 DSCC listed products. For more information, please visit www.microssaustin.com/siliconcarbide.

About SemiSouth Laboratories

Founded in 2000 as a spin-out from Mississippi State University, SemiSouth is a privately held semiconductor company with more than 20 U.S. patents in the emerging field of high-efficiency silicon-carbide power devices. The company's products, which include 1200 V and 1700 V transistors as well as high-voltage diodes and power modules, enable ultra-efficient power conversion and power management in applications ranging from three kilowatts to 100 kilowatts today, with products in development to serve applications up to one megawatt. The company operates a 10,000-square-foot clean-room facility at its Starkville headquarters, where it employs more than 70 people.

SemiSouth, with offices in Starkville, Mississippi, focuses on SiC power devices and electronics. The company has sold products globally through direct sales or distributors since 2005. It introduced the world's first commercial, cost-effective normally-off SiC JFET in 2008, enabling world-record energy (over 99%) efficiency for its customers' products in solar inverters. SemiSouth has also been recognized as a leader in energy-efficient and/or harsh-environment solutions for customers in solar, industrial power supplies, wind, electric vehicles, military-aerospace, and other key markets. More information can be obtained from its website, www.semisouth.com.

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