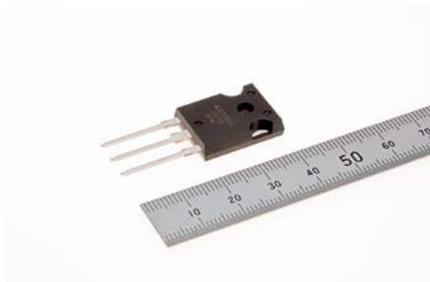


PRESS RELEASE

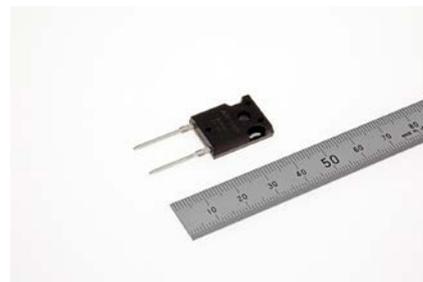
Mitsubishi Electric to Launch 1200V SiC Schottky Barrier Diode

Reduces power loss and physical size of power supply systems

TOKYO, March 27, 2019 – Mitsubishi Electric Corporation (TOKYO: 6503) announced regarding the launch of a new 1200V silicon-carbide Schottky-barrier diode (SiC-SBD) that reduces the power loss and physical size of applications such as power supply systems for infrastructure, photovoltaic power systems and more. Sample shipments will start in June 2019 and sales will begin in January 2020.



1200V SiC-SBD TO-247 package



1200V SiC-SBD TO-247-2 package

The diodes will be exhibited at major trade shows, including MOTORTECH JAPAN 2019 during TECHNOFROTIER 2019 at the Makuhari Messe exhibition complex in Chiba, Japan from April 17 to 19, at PCIM Europe 2019 in Nuremberg, Germany from May 7 to 9, and at PCIM Asia 2019 in Shanghai, China from June 26 to 28.

The target is to utilize the advantages of the SiC technology in order to achieve an energy-saving inverter design. With Mitsubishi SiC diodes, up to 21% energy losses can be optimized. In addition, the possibility of achieving high switching frequencies allow to minimize the size of peripheral components. The combination of the Schottky barrier diode with the P-N junction (JBS structure) results in higher reliability.

The extended product ranges with different current classes of SiC Mitsubishi diodes make it possible to meet the requirements of different applications including automotive applications. The 600V / 20A devices are already available with different packages (TO247, TO263S, TO-220FP-2). The lineup which includes the 10A and the 20A devices in the 1200V category would be available from June 2019.

Mitsubishi Electric, since commercializing its first power module incorporating SiC-SBD and SiC-MOSFET in 2010, has continued to contribute to reduce the size and raise the energy efficiency of inverter systems.

Consumers are increasingly choosing products that incorporate SiC-SBDs, including energy-efficient power supply systems in air conditioners, industrial equipment, railway vehicles and more. In particular, the new 1200V SiC-SBD series will help meet increasing demands for discrete semiconductors used in photovoltaic power generation and EV charging.

About Mitsubishi Electric

With nearly 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,444.4 billion yen (in accordance with IFRS; US\$ 41.9 billion*) in the fiscal year ended March 31, 2018.

*At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2018

Further information:

<http://global.mitsubishielectric.com>

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