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No. 3085

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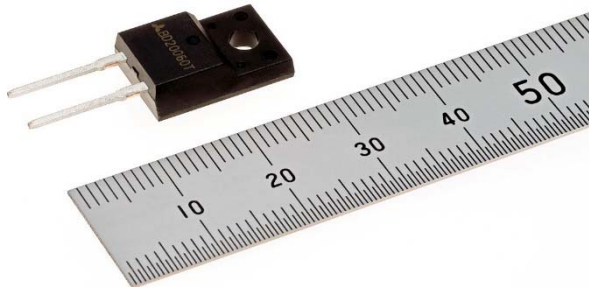
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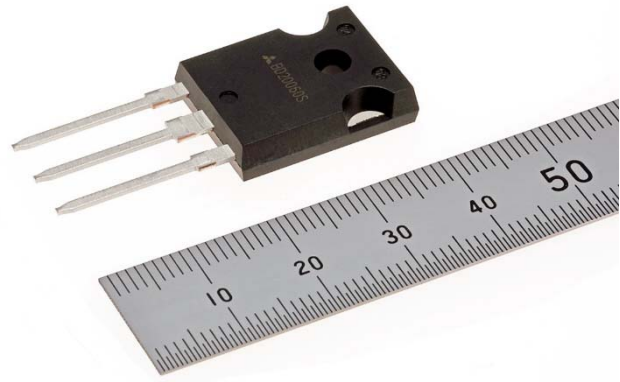
Mitsubishi Electric to Launch Silicon-carbide Schottky-barrier Diode

Reduces power loss and physical size of power supply systems

TOKYO, March 1, 2017 – [Mitsubishi Electric Corporation](http://www.mitsubishielectric.com) (TOKYO: 6503) announced today its launch of a silicon-carbide Schottky-barrier diode (SiC-SBD) that incorporates a junction-barrier Schottky (JBS) structure to reduce the power loss and physical size of power supply systems for air conditioners, photovoltaic power systems and more, effective immediately.



SiC-SBD (BD20060T)



SiC-SBD (BD20060S)

Product Features

1) *Silicon carbide contributes to lower power consumption and compact size*

- Improved energy conversion results in about 21% less power loss compared to silicon (Si) products
- Enables high-speed switching and downsizing of peripheral components, such as reactors

2) *Improved reliability thanks to junction-barrier Schottky (JBS) structure*

- Combines Schottky barrier with p-n junction
- JBS structure helps to achieve high reliability

Sales Schedule

Series	Model	Package	Specification	Shipment
SiC-SBD	BD20060T	TO-220	20A/600V	Mar. 1, 2017
	BD20060S	TO-247		Sep. 1, 2017

Main Specifications

Model	BD20060T	BD20060S
Specification	20A/600V	
Surge non-repetitive forward current	155A (8.3msec, sine wave)	
Diode forward voltage	1.35V	
Package	TO-220	TO-247
Dimensions	10.1×29.0×4.7mm	15.9×41.0×5.0mm

Mitsubishi Electric, since first commercializing a power module incorporating SiC devices in 2010, has continued to contribute to the miniaturization and increasing energy efficiency of inverter systems. In line with growing demands for energy-efficient power supply systems for air conditioners, photovoltaic power systems and others, consumers are increasingly choosing products that incorporate SiC-SBDs.

Environmental Awareness

The products are compliant with the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive 2011/65/EU.

Note: Development of these products has been partially supported by Japan's New Energy and Industrial Technology Development Organization (NEDO).

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About Mitsubishi Electric Corporation

With over 90 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 4,394.3 billion yen (US\$ 38.8 billion*) in the fiscal year ended March 31, 2016. For more information visit:

www.MitsubishiElectric.com

*At an exchange rate of 113 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2016