

1200V/180A Full SiC Power Module with Integrated SiC Trench MOSFET

BSM180D12P3C007



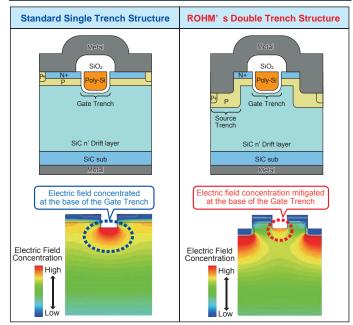
New full SiC power module with built-in SiC trench MOSFET reduces ON resistance and improves switching performance

Product Outline

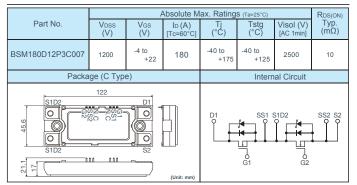
SiC devices are attracting attention due to their superior performance and characteristics compared with silicon as a semiconductor material.

ROHM's new SiC MOSFET, which utilizes a trench structure that reduces ON resistance by 50% and input capacitance by 35% compared with existing planar-type SiC MOSFETs, has been adopted in ROHM's 1200V/180A full SiC power module.

Proprietary double trench structure provides long-term reliability

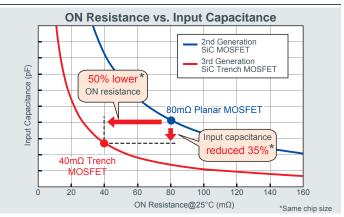


Specifications

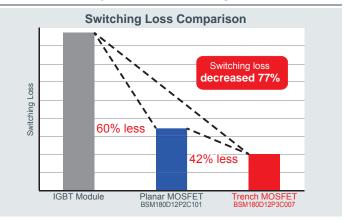


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ON resistance reduced by 50%



Dramatically lower switching loss



Expanded discrete trench MOSFET lineup

The lineup is being expanded to include 3 part numbers for each rated voltage: 650V and 1200V, in rated currents of 95A (1200V) and 118A (650V).

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