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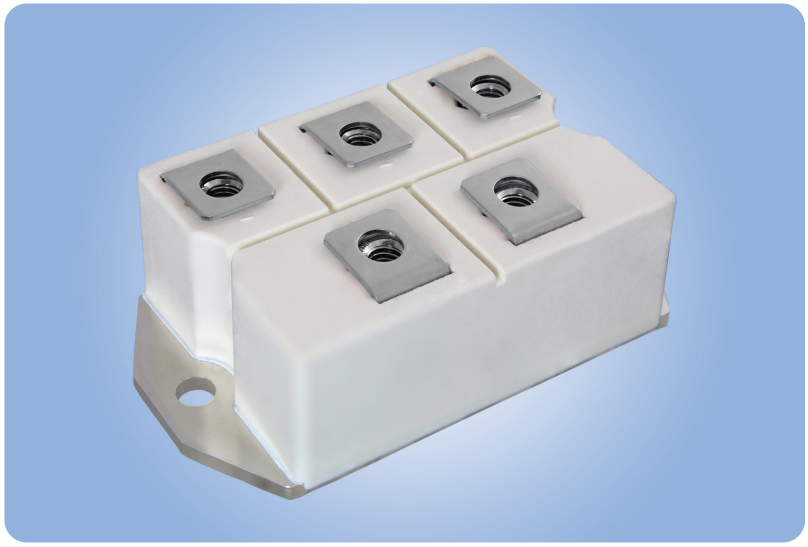
MODULES

Three-Phase Bridge Power Modules

Three-Phase Bridge Power Modules in MTC Package Increase Efficiency and Reliability



KEY BENEFITS

- High output current from 130 A to 300 A
- High blocking voltage to 1800 V
- High surge current to 2512 A
- Junction to case thermal resistance down to 0.23 °C/W
- 5-terminal MTC package

APPLICATIONS

- Three-phase rectification for industrial power supplies, high frequency welding, plasma cutting, and industrial battery chargers; input rectification for AC/DC motor controls

RESOURCES

- Datasheets:
  - please visit www.vishay.com/ppg?96989 (VS-131MT…C Series)
  - please visit www.vishay.com/ppg?96990 (VS-161MT...C Series)
  - please visit www.vishay.com/ppg?96991 (VS-301MT...C Series)
- For technical questions contact: DiodesAmerica@vishay.com, DiodesAsia@vishay.com, DiodesEurope@vishay.com
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

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Vishay's three-phase bridge modules are designed to increase efficiency and reliability for heavy duty industrial-level applications. The Vishay Semicondutors VS-131MT…C, VS-161MT…C, and VS-301MT…C series deliver higher current output, blocking voltage, and surge current than previous-generation solutions, while offering improved thermal resistance in the 5-terminal MTC package.

- Electrically insulated case for excellent junction to case thermal resistance down to 0.23 °C/W
- Robust MTC plastic package provides high reliability
- Screw terminals allow for compatibility with competing solutions

Part Number	Output Current	Reverse Voltage	Forward Voltage	Surge Current at 60 Hz	Thermal Resistance, Junction to Case
VS-131MT160C, VS-131MT180C	130 A at 120 °C	1600 V to 1800 V	2.05 V at 300 A	1330 A	0.41 °C/W
VS-161MT160C, VS-161MT180C	160 A at 118 °C		1.85 V at 300 A	1610 A	0.35 °C/W
VS-301MT160C, VS-301MT180C	300 A at 118 °C		1.70 V at 300 A	2512 A	0.23 °C/W