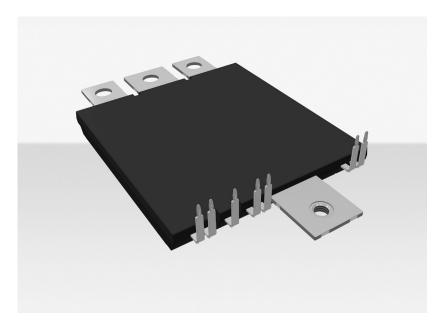


PRODUCT NOTE

RoadPak module

SiC performance



ABB's SiC e-mobility module pushes the boundaries of power density and reduces stray inductance to new levels.

01 RoadPak module

ABB's power semiconductors provide unsurpassed reliability and outstanding quality. Failure is not an option when driving electrical motors, ensuring smooth acceleration of trains, or transmitting gigawatt power over long distances and underwater. RoadPak is the first module for e-mobility applications in our proven portfolio of power semiconductors that takes advantage of silicon carbide (SiC) technology.

RoadPak benefits

The key benefit is the high-current rating in a small package that is enabled by the use of SiC, combined with very small stray inductance and well-known ABB reliability. The RoadPak will be certified according to IATF19646 and will be AQG 324 qualified.

Features 1200 V SiC MOSFET transistors

Compact design

Half bridge configuration with two MOSFET switches

Pin-Fin structure for lowest thermal resistance

Lowest loss enabled by SiC chipset

Lowest stray inductance

Voltage rating: 1200 V

Current up to 980A

Typical applications

Trucks

High power in a small package allows efficient inverter design

Public transport

High reliability for the typical stop-and-go operation of e-buses and trams

Aviation

Performance and reliability to meet the demands of a wide range of aviation applications

Charging

Delivers performance to enable fast charging of trucks and buses

Available ratings

Voltage (V)	Current (A)	Configurations
1200	580*	Half bridge
1200	780*	Half bridge
1200	980*	Half bridge

^{*} Max. chip rating



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