

Product Overview

FAM65CR51DZ: Power Integrated Module (PIM) Boost Converter Stage for Multiphase and Semi-Bridgeless PFC

For complete documentation, see the data sheet.

The FAM65CR51DZ is a power integrated MOSFET module with boost converter stage for multi-phase and semi-bridgeless power factor correction (PFC).

Features

- Integrated SIP or DIP Boost Converter Stage Power Module for On-board Charger (OBC) in EV-PHEV
- 5 kV/1 sec Electrically Isolated Substrate for Easy Assembly
- Compact Design for Low Total Module Resistance
- Module Serialization for Full Traceability
- Lead Free, RoHS and UL94V-0 Compliant
- Automotive Qualified per AEC Q101 and AQC324 Guidelines

Benefits

- Enable Design of Small, Efficient and Reliable System for Reduced Vehicle Fuel Consumption and CO2 Emission
- Simplified Assembly, Optimized Layout, High Level of Integration, and Improved Thermal Performance

Applications

- PFC Stage of an On-board Charger in PHEV-HEV

End Products

- On-board Charger in PHEV-HEV

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Configuration	V _{BR} Max (V)	R _{DS(on)} Max (Ω)	Package Type
FAM65CR51DZ1		AEC Qualified PPAP Capable Pb-free Halide free	NEW	Dual Boost	650	51	APMCD-A16 / 12LD, AUTOMOTIVE MODULE
FAM65CR51DZ2		AEC Qualified PPAP Capable Pb-free Halide free	Active	Dual Boost	650	51	APMCD-B16 / 12LD, AUTOMOTIVE MODULE

For more information please contact your local sales support at www.onsemi.com.

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