

Product Overview

FAM65HR51DS: H-Bridge in APM16 Series for LLC and Phase-shifted DC-DC Converter

For complete documentation, see the data sheet.

OnBoard Charger H-Bridge in APM16 Series for LLC and Phase-shifted DC-DC Converter.
51mOhm SuperFET3 H-Bridge on Al₂O₃ DBC substrate with 5kV isolation in a compact APM16 transfer molded module

Features

- SIP or DIP H-Bridge Power Module for On-board Charger (OBC) in EV-PHEV
- High Voltage Snubber Capacitor for Low Noise at High Voltage Battery
- 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
- integrated Isolation enables compact system design

Applications

- DC-DC Converter for On-board Charger in EV-PHEV

End Products

- On-board Charger in EV-PHEV

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Configuration	V _{BR} Max (V)	R _{DS(on)} Max (Ω)	Package Type
FAM65HR51DS1		AEC Qualified PPAP Capable Pb-free Halide free	NEW	Full Bridge	650	51	APMCA-A16 / 16LD, AUTOMOTIVE MODULE
FAM65HR51DS2		AEC Qualified PPAP Capable Pb-free Halide free	Active	Full Bridge	650	51	APMCA-B16 / 16LD, AUTOMOTIVE MODULE

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

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