

Product Overview

FAM65V05DF1: Intelligent Power Module (IPM), AEC-Q , Automotive, Inverter 650V,50A

For complete documentation, see the data sheet.

FAM65V05DF1 is a 650 V, 50 A, AEC-Qualified Intelligent Power Module providing a fully-featured high-performance auxiliary inverter output stage for hybrid and electric vehicles. These modules integrate optimized gate drivers along with Field Stop Trench IGBT and soft recovery Diodes to minimize EMI and losses, while also providing various protection features, in a compact and small 12cm² footprint. FAM65V05DF1 presents an excellent opportunity to simplify board design, reduce development time and lower system cost.

Features

- 27 pin Auto SPM® module
- 650 V-50A 3-phase IGBT IPM with low loss IGBTs and soft recovery diodes optimized for auxiliary inverter in Hybrid & Electric Vehicle applications
- Transfer molded Double Dual Inline Package (DIP) outline
- Integrated gate drivers with Internal VS connection, Under Voltage lockout, Over-current shutdown, Temperature Sensing Unit and Fault reporting
- Electrically isolated DBC substrate with low thermal resistance
- Module serialization for full traceability
- UL Certified

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Family	Type	Substrate	Input Logic	Rated Voltage Min (V)	I _o @ 25 °C Min (A)	V _{CE(sat)} @ 25 °C Typ (V)	R _{DS(on)} (Ω)	Emitter Configuration	Shutdown Pin	Mounting Type	Package Type
FAM65V05DF1	35.9991	AEC Qualified PPAP Capable Pb-free Halide free	Active	ASPM 27	3-Phase Inverter IGBT	DBC	Active High	650	50	2.25		3 Emitter Pins	Yes	DIP	DIP-027

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

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