Product Overview

FSB50250US: Motion SPM® 5 Series

For complete documentation, see the data sheet.

FSB50250US is an advanced Motion SPM® 5 series based on fast-recovery MOSFET (FRFET®) technology as a compact inverter solution for small power motor drive applications such as fans and pumps. It is composed of six FRFET MOSFETs and three half-bridge gate drive HVICs. FSB50250US provides low electromagnetic interference (EMI) characteristics with optimized switching speed. Moreover, since it employs MOSFET as a power switch, it has greater ruggedness and a larger safe operating area (SOA) than IGBT-based power modules. The package is optimized for thermal performance and compactness for use in applications where space is limited. FSB50250US is the right solution for inverters requiring energy efficiency, compactness, and low electromagnetic interference.

Features

- 500V RDS(on)=4.2Ω (Max.) 3-Phase FRFET Inverter Including High Voltage Integrated Circuit (HVIC)
- Three separate negative DC-link terminals for inverter current sensing applications
- HVIC for Gate Driving and Under-Voltage Protection
- Active-High interface, can work with 3.3V/5V logic
- Optimized for Low Electromagnetic Interference
- Isolation Voltage Rating of 1500Vrms for 1min.
- Surface Mounted Device Package
- Moisture Sensitive Level (MSL) 3

Applications

- Motion Control - Home Appliance/Industrial Motor

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

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