

Product Overview

FNB41060: Intelligent Power Module, 600 V, 10A

For complete documentation, see the data sheet.

FNB41060 is a Motion SPM® 45 series that Fairchild has newly developed to provide a very compact and high performance inverter solution for AC motor drives in low-power applications such as washing machines and industrial fans. It combines low-loss short-circuit rated IGBTs and optimized gate drivers in a fully isolated package to deliver a simple and robust design. The system reliability is further enhanced by the built-in NTC for temperature monitoring, integrated under-voltage lock-out function for both high and low side, and an over-current protection input. Three separate open-emitter pins for low side IGBTs make three leg current sensing possible. Built-in bootstrap diodes and dedicated VS pins make PCB layout easy.

Features

- 600V, 10A 3-phase IGBT inverter including control ICs for gate drive and protections
- Easy PCB layout thanks to the built-in bootstrap diodes and the dedicated Vs pins
- Three separate open-emitter pins from low side IGBTs for three leg current sensing
- Single-grounded power supply with bootstrap operations
- Built-in thermistor for temperature monitoring
- Isolation rating of 2000Vrms/min.

Applications

- Motion Control - Home Appliance/Industrial Motor

Part Electrical Specifications

Product	Compliance	Status	Family	Rated Voltage Min (V)	$I_{O} @ 25^{\circ}C$ Min (A)	$V_{CE(sat)} @ 25^{\circ}C$ Typ (V)	$R_{DS(on)}$ (Ω)	Emitter Configuration	Shutdown Pin	Package Type
FNB41060	Pb-free Halide free	Active	SPM® 45 Series	600	10	1.5		3 emitter pins	No	CDIP-026
FNB41060B2	Pb-free Halide free	Active	SPM® 45 Series	600	10	1.5		3 emitter pins	No	CDIP-026

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

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