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ON Semiconductor®

Energy Efficient Innovations

Product Overview

FPAB20BH60B: PFC Intelligent Power Module, 600V, 20A

For complete documentation, see the data sheet.

The FPAB20BH60B is an advanced PFC SPM® 3 module providing a fully-featured, high-performance Boost PFC (Power Factor Correction) input power stage for consumer, medical, and industrial applications. These modules integrate optimized gate drive of the built-in IGBT to minimize EMI and losses, while also providing multiple on-module protection features including under-voltage lockout, over-current shutdown, thermal monitoring, and fault reporting. These modules also feature a full-wave rectifier, and high-performance output diode for additional space savings and mounting convenience.

Features

- UL Certified No. E209204 (UL1557)
- 600 V - 20 A Single-Phase Boost PFC with Integral Gate Driver and Protection
- Very Low Thermal Resistance Using Al_2O_3 DBC Substrate
- Full-Wave Bridge Rectifier and High-Performance Output Diode
- Built-in NTC Thermistor for Temperature Monitoring
- Optimized for 20kHz Switching Frequency
- Isolation Rating: 2500 Vrms/min.

Applications

- Motion Control - Home Appliance/Industrial Motor

Part Electrical Specifications

Product	Compliance	Status	Family	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	Package Type
FPAB20BH60B	Pb-free	Active	Boost PFC SPM® Series	600	20	3	-	3 emitter pins	No	DIP-027

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

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