

Product Overview

FPAB30BH60B: PFC Intelligent Power Module, 600V, 30A

For complete documentation, see the data sheet.

The FPAB30BH60B 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 single-phase 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 highperformance output diode for additional space savings and mounting convenience.

Features

- UL Certified No. E209204 (UL1557)
- 600 V - 30 A Single-Phase Boost PFC with Integral Gate Driver and Protection
- Very Low Thermal Resistance Using Al₂O₃ 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
FPAB30BH60B	Pb-free	Active	Boost PFC SPM [®] Series	600	30	2.8	-	3 emitter pins	No	DIP-027

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

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