

## Product Overview

### FPDB60PH60B: PFC Intelligent Power Module, 600V, 60A

For complete documentation, see the data sheet.

The FPDB60PH60B is an advanced PFC SPM<sup>®</sup> 3 module providing a fully-featured, high-performance Bridgeless PFC (Power Factor Correction) input powerstage for consumer, medical, and industrial applications. These modules integrate optimized gate drive of the built-in IGBTs 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 high-performance output diodes and shunt resistor for additional space savings and mounting convenience.

### Features

- UL Certified No. E209204 (UL1557)
- 600 V - 60 A 2-Phase Bridgeless PFC with Integral Gate Driver and Protection
- Very Low Thermal Resistance Using AlN DBC Substrate
- Built-in NTC Thermistor for Temperature Monitoring
- Built-in Shunt Resistor for Current Sensing
- 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)	$R_{DS(on)}$ ( $\Omega$ )	Emitter Configuration	Shutdown Pin	Package Type
FPDB60PH60B	Pb-free	Active	Bridgeless PFC SPM <sup>®</sup> Series	600	60	2.5	-	-	No	DIP-027

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 11/26/2018