

# FDMF5071

## Smart Power Stage (SPS) Modules with Integrated Current and Temperature Monitors

### Product Overview

For complete documentation, see the data sheet.

### Features

- Up to 90A Instantaneous Peak Current Handling Capability
  - High-Performance, Universal Footprint, Copper-Clip 5 mm x 6 mm PQFN Package
  - ON Semiconductor’s PowerTrench® MOSFETs for Clean Voltage Waveforms and Reduced Ringing
  - 30 V / 25 V Breakdown Voltage MOSFETs for Higher Long-Term Reliability
  - Optimized for Switching Frequencies up to 1 MHz
  - Optimized FET Pair for Highest Efficiency at 10% ~ 15 % Duty Cycle
  - Optimized for Switching Frequencies up to 1 MHz
  - Integrated Current Monitoring (IMON)
  - Integrated Temperature Monitor (TMON)
  - Catastrophic Fault Detection Features
- For more features, see the data sheet

### Applications

- CPU and Memory Voltage Regulators
- High-Current Multiphase Voltage Regulators
- DC/DC Power Module

### End Products

- Server CPUs, Storage, Telecom
- Artificial Intelligence Add-On Cards

Part Electrical Specifications													
Product	Status	Compliance	V <sub>GS(IN)</sub> (V) Typ	V <sub>IN</sub> (V) Typ	PWM Level	I <sub>O</sub> (A) Max	f <sub>max</sub> (MHz) Max	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
FDMF5071	Active		5	12	3.3V, 5V	90	1	PQFN-39	483BF.PDF	1	260	REEL	3000