

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 _{GS} (V) Typ	V _{IN} (V) Typ	PWM Level	I _O (A) Max	f _{max} (MHz) Max	Packa ge Type	Case Outline	MSL Type	MSL Temp (°C)	Contai ner Type	Contai ner Qty.
FDMF5071	Active		5	12	3.3V, 5V	90	1	PQFN- 39	483BF .PDF	1	260	REEL	3000