

FDMF5176

45A Smart Power Stage (SPS) Modules with Integrated Current and Temperature Monitors

Product Overview

For complete documentation, see the data sheet.

Features

- Up to 45A Peak Current Handling Capability
- High-Performance, Universal Footprint, Copper-Clip 4 mm x 5 mm PQFN Package
- ON Semiconductor's PowerTrench® MOSFETs for Clean Voltage Waveforms and Reduced Ringing
- 30V / 25V Breakdown Voltage MOSFETs for Higher Long Term Reliability
- Optimized FET Pair for Highest Efficiency at 10% ~ 15% Duty Cycle
- Optimized for Switching Frequencies up to 1 MHz
- Integrated Current Monitor (IMON)
- Integrated Temperature Monitor (TMON)
- Catastrophic Fault Detection
- Thermal Flag (OTP) for Over-Temperature Condition

For more features, see the data sheet


Applications

- Multiphase and Single Phase DC-DC Voltage Regulators
- Server, Storage Systems, Computing
- Communications Infrastructure Systems
- Graphics Cards, Enterprise Switches

End Products

- Server, Storage Systems, Computing

Part Electrical Specifications

Product	Status	Compliance	V _{CIN} (V) Typ	V _{IN} (V) Typ	PWM Level	I _O (A) Max	f _{max} (MHz) Max	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
FDMF5176	Active		5	12	3.3V, 5V	45	1	PQFN-24	483BV.PDF	1	260	REEL	3000