

Product Overview

FDD9509L-F085: PowerTrench® MOSFET, P-Channel, -40 V, -100 A, 4.4 mΩ

For complete documentation, see the data sheet.

PowerTrench® MOSFET, P-Channel, -40 V, -100 A, 4.4 mΩ

Features

- Typical $R_{DS(on)}$ = 6.0 mΩ at $V_{GS} = -10V$, $I_D = -70 A$
- Typical $Q_{g(tot)}$ = 50 nC at $V_{GS} = -10V$, $I_D = -70 A$
- UIS Capability
- RoHS Compliant
- Qualified to AEC Q101

Applications

- Automotive Engine Control
- PowerTrain Management
- Solenoid and Motor Drivers
- Distributed Power Architectures and VRM
- Primary Switch for 12 V Systems

End Products

- Electrical Power Steering
- Integrated Starter/Alternator

Part Electrical Specifications

Product	Compliance	Status	Chan- nel Polar- ity	Confi- gura- tion	V_{BRD} V_{SS} Min (V)	V_{GS} Max (V)	$V_{GS(th)}$ Max (V)	I_D Max (A)	P_D Max (W)	$R_{DS(on)}$ Max @ $V_{GS} =$ 2.5 V (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} =$ 4.5 V (mΩ)	$R_{DS(on)}$ Max @ $V_{GS} =$ 10 V (mΩ)	Q_g Typ @ $V_{GS} =$ 4.5 V (nC)	Q_g Typ @ $V_{GS} =$ 10 V (nC)	C_{iss} Typ (pF)	Pack- age Type
FDD9509L-F085	AEC Qualified PPAP Capable Pb-free Halide free	Active	P- Chan- nel	Singl- e	- 40	± 16	- 3	- 90	150		15	7.5	23	50	3350	DPA K-3 / TO- 252-3

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

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