

Product Overview

FDWS9509L_F085: P-Channel Logic Level Power Trench® MOSFET -40V, -65A, 8mΩ

For complete documentation, see the data sheet.

P-Channel Logic Level Power Trench® MOSFET -40 V, -65 A, 8 mΩ

Features

- Typical $R_{DS(on)}$ = 6.3 mΩ at $V_{GS} = -10V$, $I_D = -65 A$
- Typical $Q_{g(tot)}$ = 48 nC at $V_{GS} = -10V$, $I_D = -65 A$
- UIS Capability
- RoHS Compliant
- Qualified to AEC Q101
- Wettable flanks for automatic optical inspection (AOI)

Applications

- Automotive Engine Control
- PowerTrain Management
- Solenoid and Motor Drivers
- Electronic Steering
- Integrated Starter/Alternator

Part Electrical Specifications

Product	Compliance	Status	Channel Polarity	Configuration	$V_{SS(BR)D}$ 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)	Package Type
FDWS9509L-F085	AEC Qualified PPAP Capable Pb-free Halide free	Active	N-Channel	Single	-40	±16	-3	-65	107	-	15.3	13	-	48	3360	DFN-8

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

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