

FDB075N15A

N-Channel PowerTrench® MOSFET 150V, 130A, 7.5mΩ

Product Overview

For complete documentation, see the data sheet.

This N-Channel MOSFET is produced using an advanced PowerTrench® process that has been tailored to minimize the on-state resistance while maintaining superior switching performance.

Features

- RDS(on) = 6.25mΩ (Typ.)@ VGS = 10V, ID = 100A
- Fast Switching
- Low Gate Charge, QG = 77nC (Typ.)
- High Performance Trench Technology for Extremely Low RDS(on)
- High Power and Current Handling Capability
- RoHS Compliant

Applications

- AC-DC Merchant Power Supply
- AC-DC Merchant Power Supply - Servers & Workstations
- AC-DC Merchant Power Supply - Desktop PC
- Uninterruptible Power Supply
- Other Data Processing

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	V _{DS(BR)} Min (V)	V _{GS} Max (V)	V _{GS(t)} 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
FDB075N15A	2.2967		Active	N-Channel	Single	150	DC: ±20 AC: ±30	4	130	333	-	-	7.5	-	77	5525	D2PAK-3 / TO-263-2