

FDA59N30

Power MOSFET, N-Channel, UniFET™, 300V, 59A, 56mΩ, TO-3P

Product Overview

For complete documentation, see the data sheet.

UniFET™ MOSFET is a high voltage MOSFET family based on planar stripe and DMOS technology. This MOSFET is tailored to reduce on-state resistance, and to provide better switching performance and higher avalanche energy strength. This device family is suitable for switching power converter applications such as power factor correction (PFC), flat panel display (FPD) TV power, ATX and electronic lamp ballasts.

Features

- RDS(on) = 56m (Max.)@ VGS = 10V, ID = 29.5A
- Low gate charge (Typ. 77nC)
- Low Crss (Typ. 80pF)
- 100% avalanche tested

Applications

- This product is general usage and suitable for many different applications.

Part Electrical Specifications

Product	Status	Compliance	$V_{(BR)DSSMin}$ (V)	$R_{DS(on)Max@VGS=10V}$ (mΩ)	Channel Polarity	Configuration	V_{GSMax} (V)	$V_{GS(th)Max}$ (V)	I_{DMax} (A)	P_{DMax} (W)	$R_{DS(on)Max@VGS=2.5V}$ (mΩ)	$R_{DS(on)Max@VGS=4.5V}$ (mΩ)	Q_{Tg} p@VGS=4.5V (nC)	Q_{9Tg} p@VGS=10V (nC)	C_{iss} Typ (pF)	Package Type	Case Outline	MSL Type	MSL Temp (°C)	Container Type	Container Qty.
FDA59N30	Active		300	56	N-Channel	Single	±30	5	59	500	-	-	-	77	3590	TO-3P-3L	340BZ.PDF	NA	0	TUBE	450