

FDA38N30

Power MOSFET, N-Channel, UniFET™, 300V, 38A, 85mΩ, 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

- $R_{DS(on)} = 70\text{m}\Omega$ (Typ.) @ $V_{GS} = 10\text{V}$, $I_D = 19\text{A}$
- Low gate charge (Typ. 60nC)
- Low C_{rss} (Typ. 60pF)
- 100% avalanche tested
- ESD improved capability
- RoHS compliant

Applications

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

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channel Polarity	Configuration	$V_{DS}^{(BR)}$ Min (V)	V_{GS}^{Max} (V)	$V_{GS}^{(th)}$ Max (V)	I_D^{Max} (A)	P_D^{Max} (W)	$R_{DS(on)}^{Max}$ @ $V_{GS} = 2.5\text{V}$ (mΩ)	$R_{DS(on)}^{Max}$ @ $V_{GS} = 4.5\text{V}$ (mΩ)	$R_{DS(on)}^{Max}$ @ $V_{GS} = 10\text{V}$ (mΩ)	Q_g^{Typ} @ $V_{GS} = 4.5\text{V}$ (nC)	Q_g^{Typ} @ $V_{GS} = 10\text{V}$ (nC)	C_{iss}^{Typ} (pF)	Package Type
FDA38N30	1.5176		Active	N-Channel	Single	300	±30	5	38	312	-	-	85	-	60	2600	TO-3P-3L