

Image may be representation.
See specifications for product details.



FDP18N50

Manufacturer Part Number	FDP18N50
Manufacturer	onsemi
Allelco Part Number	32D-FDP18N50
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	MOSFET N-CH 500V 18A TO220-3
Package	TO-220-3
Data sheet	TO220B03 Pkg Drawing.pdf
RoHs Status	ROHS3 Compliant

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FDP18N50 - onsemi.New Original in Stock. Download Linear Technology FDP18N50 datasheet/specifications on AllelcoElec.com.
Request a quote for FDP18N50, please send us email: info@allelco.com

Specifications

FDP18N50 Tech Specifications

FDP18N50 - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	5V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±30V	Input Capacitance (Ciss) (Max) @ Vds	2860 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	60 nC @ 10 V
Supplier Device Package	TO-220-3	FET Type	N-Channel
Series	UniFET™	FET Feature	-
Rds On (Max) @ Id, Vgs	265mOhm @ 9A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	235W (Tc)	Drain to Source Voltage (Vdss)	500 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	18A (Tc)
Package	Tube	Base Product Number	FDP18

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDP18N50

Product Attribute				
Part Number	FDP18N50	FDP16N50	FDP20N50F	FDP18N20F
Manufacturer	onsemi	onsemi	onsemi	Fairchild Semiconductor
Current - Continuous Drain (Id) @ 25°C	18A (Tc)	16A (Tc)	20A (Tc)	18A (Tc)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Input Capacitance (Ciss) (Max) @ Vds	2860 pF @ 25 V	1945 pF @ 25 V	3390 pF @ 25 V	1180 pF @ 25 V
Power Dissipation (Max)	235W (Tc)	200W (Tc)	250W (Tc)	100W (Tc)
Supplier Device Package	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Drain to Source Voltage (Vdss)	500 V	500 V	500 V	200 V
Vgs(th) (Max) @ Id	5V @ 250µA	5V @ 250µA	5V @ 250µA	5V @ 250µA
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Series	UniFET™	UniFET™	UniFET™	UniFET™
Base Product Number	FDP18	FDP16	FDP20	-
Vgs (Max)	±30V	±30V	±30V	±30V
Gate Charge (Qg) (Max) @ Vgs	60 nC @ 10 V	45 nC @ 10 V	65 nC @ 10 V	26 nC @ 10 V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Rds On (Max) @ Id, Vgs	265mOhm @ 9A, 10V	380mOhm @ 8A, 10V	260mOhm @ 10A, 10V	145mOhm @ 9A, 10V
Package	Tube	Tube	Tube	Bulk
FET Feature	-	-	-	-

FDP18N50 Datasheet PDF

Download FDP18N50 pdf datasheets and onsemi documentation for FDP18N50 - onsemi.

Datasheets

[TO220B03 Pkg Drawing.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

















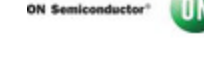

[onsemi RoHS.pdf](#)

PCN Design/Specification

PCN Packaging

Customers Also Interested in

Recommended Products

 FDP16N50 onsemi MOSFET N-CH 500V 16A TO220-3	 FDP20N50F onsemi MOSFET N-CH 500V 20A TO220-3	 FDP18N20F Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	 FDP16AN08AO Fairchild (onsemi)	 FDP16N50 Fairchild Semiconductor MOSFET N-CH 500V 16A TO220-3	 FDP15N65 Fairchild Semiconductor MOSFET N-CH 650V 15A TO220-3
 FDP18N20F onsemi MOSFET N-CH 200V 18A TO220-3	 FDP20AN06AO onsemi MOSFET N-CH 60V 9A/45A TO220-3	 FDP16AN08AO MOS Fairchild (onsemi)	 FDP19N40 MOS Fairchild (onsemi)	 FDP19N40 onsemi MOSFET N-CH 400V 19A TO220-3	 FDP20AN06AO Fairchild Semiconductor MOSFET N-CH 60V 9A/45A TO220-3
 FDP16N50U Fairchild (onsemi)	 FDP20N50 onsemi MOSFET N-CH 500V 20A TO220-3	 FDP20AN06AO Fairchild (onsemi)	 FDP16AN08AO onsemi MOSFET N-CH 75V 9A/58A TO220-3	 FDP18N50 MOS AMI Semiconductor/onsemi	 FDP16AN08AO Fairchild Semiconductor MOSFET N-CH 75V 9A/58A TO220-3

Shipment

Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
 - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00




Note: The above table is for reference only. There may have some data bias for the uncontrollable factors. Contact us if you have any questions.

Payment Support



The payment method can be chosen from the methods shown below:
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



Your Faithful Supply Chain Partner -

 Efficient Supply Management	 Cost-Saving Procurement	 Fast Sourcing & Delivery
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Contact us if you have any questions.

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Certifications & Memberships



View More

Contact us

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