

Image may be representation.  
See specifications for product details.



## FDA28N50F

Manufacturer Part Number	<b>FDA28N50F</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-FDA28N50F
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 500V 28A TO3PN
Package	TO-3P-3, SC-65-3
Data sheet	<b>FDA28N50F.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

FDA28N50F - onsemi.New Original in Stock. Download Linear Technology FDA28N50F datasheet/specifications on AllelcoElec.com.  
Request a quote for FDA28N50F, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

FDA28N50F Tech Specifications

FDA28N50F - 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	5387 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	105 nC @ 10 V
Supplier Device Package	TO-3PN	FET Type	N-Channel
Series	UniFET™	FET Feature	-
Rds On (Max) @ Id, Vgs	175mOhm @ 14A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	310W (Tc)	Drain to Source Voltage (Vdss)	500 V
Package / Case	TO-3P-3, SC-65-3	Current - Continuous Drain (Id) @ 25°C	28A (Tc)
Package	Tube	Base Product Number	FDA28

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDA28N50F

Product Attribute				
Part Number	FDA28N50F	FDA38N30	FDA24N40F	FDA59N25
Manufacturer	onsemi	onsemi	Fairchild Semiconductor	onsemi
Vgs (Max)	±30V	±30V	±30V	±30V
FET Feature	-	-	-	-
Current - Continuous Drain (Id) @ 25°C	28A (Tc)	38A (Tc)	23A (Tc)	59A (Tc)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Rds On (Max) @ Id, Vgs	175mOhm @ 14A, 10V	85mOhm @ 19A, 10V	190mOhm @ 11.5A, 10V	49mOhm @ 29.5A, 10V
Vgs(th) (Max) @ Id	5V @ 250µA	5V @ 250µA	5V @ 250µA	5V @ 250µA
Package	Tube	Tube	Bulk	Tube
Input Capacitance (Ciss) (Max) @ Vds	5387 pF @ 25 V	2600 pF @ 25 V	3030 pF @ 25 V	4020 pF @ 25 V
Package / Case	TO-3P-3, SC-65-3	TO-3P-3, SC-65-3	TO-3P-3, SC-65-3	TO-3P-3, SC-65-3
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Power Dissipation (Max)	310W (Tc)	312W (Tc)	235W (Tc)	392W (Tc)
Gate Charge (Qg) (Max) @ Vgs	105 nC @ 10 V	60 nC @ 10 V	60 nC @ 10 V	82 nC @ 10 V
Supplier Device Package	TO-3PN	TO-3PN	TO-3PN	TO-3PN
Series	UniFET™	UniFET™	UniFET™	UniFET™
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Drain to Source Voltage (Vdss)	500 V	300 V	400 V	250 V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Base Product Number	FDA28	FDA38	-	FDA59

### FDA28N50F Datasheet PDF

Download FDA28N50F pdf datasheets and onsemi documentation for FDA28N50F - onsemi.

#### Datasheets

[FDA28N50F.pdf](#)

#### Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

#### PCN Packaging

Mult Devices 24/Oct/2017.pdf

Packing quantity increase 28/Dec/2020.pdf

### PCN Design/Specification

Dimension/Color Change 24/Feb/2021.pdf

Postponed Qualification 27/Dec/2022.pdf

### PCN Obsolescence/ EOL















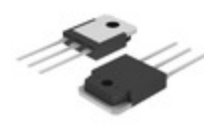


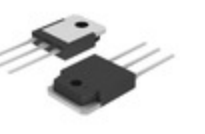
Mult Dev EOL 30/Mar/2023.pdf

### PCN Assembly/Origin

Assembly/Test Site 14/Dec/2022.pdf

## Customers Also Interested in

### Recommended Products

					
<b>FDA28N50 MOS</b> AMI Semiconductor/onsemi	<b>FDA4100LV</b> STMicroelectronics IC AMP D DUAL/QUAD 270W 92HIQUAD	<b>FDA38N30</b> onsemi MOSFET N-CH 300V 38A TO3PN	<b>FDA24N40F</b> Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 2	<b>FDA215H</b> CLARE	<b>FDA217S</b> IXYS Integrated Circuits Division OPTOISO 3.75KV 2CH GATE DVR 8SMD
					
<b>FDA38N30 MOS</b> Fairchild (onsemi)	<b>FDA59N25</b> onsemi MOSFET N-CH 250V 59A TO3PN	<b>FDA217</b> IXYS Integrated Circuits Division OPTOISO 3.75KV 2CH GATE DVR 8DIP	<b>FDA24N50 MOS</b> Fairchild (onsemi)	<b>FDA38N30</b> Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 3	<b>FDA24N50</b> onsemi MOSFET N-CH 500V 24A TO3PN
					
<b>FDA28N50</b> onsemi MOSFET N-CH 500V 28A TO3PN	<b>FDA450LV</b> STMicroelectronics IC AMP CLASS D QUAD 50W 100TQFP	<b>FDA24N40F</b> onsemi MOSFET N-CH 400V 23A TO3PN	<b>FDA24N50F</b> onsemi MOSFET N-CH 500V 24A TO3PN	<b>FDA50N50</b> onsemi POWER FIELD-EFFECT TRANSISTOR, 4	<b>FDA33N25</b> onsemi MOSFET N-CH 250V 33A TO3PN

## 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

Contact us if you have any questions.

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### Certifications & Memberships



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