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See specifications for product details.



FDP085N10A-F102

Manufacturer Part Number **FDP085N10A-F102**

Manufacturer **onsemi**

Allelco Part Number **32D-FDP085N10A-F102**

ECAD Model [Request Free CAD Models](#)

Parts Description **MOSFET N-CH 100V 96A TO220-3**

Package **TO-220-3**

Data sheet **[FDP085N10A_F102.pdf](#)**

RoHs Status **ROHS3 Compliant**

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FDP085N10A-F102 - onsemi.New Original in Stock. Download Linear Technology FDP085N10A-F102 datasheet/specifications on AllelcoElec.com.
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Specifications

FDP085N10A-F102 Tech Specifications

FDP085N10A-F102 - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	4V @ 250µA	Mounting Type	Through Hole
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	2695 pF @ 50 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	40 nC @ 10 V
Supplier Device Package	TO-220-3	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	8.5mOhm @ 96A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	188W (Tc)	Drain to Source Voltage (Vdss)	100 V
Package / Case	TO-220-3	Current - Continuous Drain (Id) @ 25°C	96A (Tc)
Package	Tube	Base Product Number	FDP085

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDP085N10A-F102

Product Attribute				
Part Number	FDP085N10A-F102	FDP10AN06A0	FDP085N10A	FDP075N15A
Manufacturer	onsemi	onsemi	onsemi	onsemi
Vgs (Max)	±20V	±20V	±20V	±20V
Power Dissipation (Max)	188W (Tc)	135W (Tc)	188W (Tc)	333W (Tc)
Drive Voltage (Max Rds On, Min Rds On)	10V	6V, 10V	10V	10V
Base Product Number	FDP085	FDP10	FDP085	FDP075
Mounting Type	Through Hole	Through Hole	Through Hole	Through Hole
Gate Charge (Qg) (Max) @ Vgs	40 nC @ 10 V	37 nC @ 10 V	40 nC @ 10 V	100 nC @ 10 V
Package / Case	TO-220-3	TO-220-3	TO-220-3	TO-220-3
Current - Continuous Drain (Id) @ 25°C	96A (Tc)	12A (Ta), 75A (Tc)	96A (Tc)	130A (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Series	PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
Package	Tube	Tube	Tube	Tube
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	4V @ 250µA	4V @ 250µA
Drain to Source Voltage (Vdss)	100 V	60 V	100 V	150 V
FET Feature	-	-	-	-
Input Capacitance (Ciss) (Max) @ Vds	2695 pF @ 50 V	1840 pF @ 25 V	2695 pF @ 50 V	7350 pF @ 75 V
Rds On (Max) @ Id, Vgs	8.5mOhm @ 96A, 10V	10.5mOhm @ 75A, 10V	8.5mOhm @ 96A, 10V	7.5mOhm @ 100A, 10V
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Supplier Device Package	TO-220-3	TO-220-3	TO-220-3	TO-220-3

FDP085N10A-F102 Datasheet PDF

Download FDP085N10A-F102 pdf datasheets and onsemi documentation for FDP085N10A-F102 - onsemi.

Datasheets

FDP085N10A_F102.pdf

Environmental Information

onsemi RoHS.pdf

PCN Design/Specification

PCN Packaging

Mult Devices 24/Oct/2017.pdf

Tape and Box/Reel Barcode Update 07/Aug/2014.pdf

PCN Part Number



















Mult Device Part Number Chg 30/May/2017.pdf

PCN Assembly/Origin

Mult Dev Mold Chg 28/Oct/2019.pdf

Customers Also Interested in

Recommended Products

					
FDP10AN06AO onsemi MOSFET N-CH 60V 12A/75A TO220-3	FDP085N10A onsemi MOSFET N-CH 100V 96A TO220-3	FDP075N15A onsemi MOSFET N-CH 150V 130A TO220-3	FDP075N15A-F102 onsemi MOSFET N-CH 150V 130A TO220-3	FDP085N10A MOS Fairchild (onsemi)	FDP120N10 onsemi MOSFET N-CH 100V 74A TO220-3
					
FDP075N15A MOS Fairchild (onsemi)	FDP083N15A onsemi MOSFET N-CH 150V 83A TO220-3	FDP090N10 onsemi MOSFET N-CH 100V 75A TO220-3	FDP083N15A-F102 onsemi MOSFET N-CH 150V 83A TO220-3	FDP11N50 Fairchild (onsemi)	FDP070AN06AO Fairchild Semiconductor MOSFET N-CH 60V 15A/80A TO220-3
					
FDP10AN06AO Fairchild Semiconductor MOSFET N-CH 60V 12A/75A TO220-3	FDP10N60NZ onsemi MOSFET N-CH 600V 10A TO220-3	FDP075N15A-F012 AMI Semiconductor/onsemi	FDP120N10 MOS Fairchild (onsemi)	FDP090N10 MOS Fairchild (onsemi)	FDP075N15A_F102 ON/FSC

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.



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-  Efficient Supply Management
-  Cost-Saving Procurement
-  Fast Sourcing & Delivery

Contact us if you have any questions.

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+00852 9146 4856
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Certifications & Memberships



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