

Image may be representation.
See specifications for product details.



FDB088N08

Manufacturer Part Number	FDB088N08
Manufacturer	onsemi
Allelco Part Number	32D-FDB088N08
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 75V 120A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	FDB088N08.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

FDB088N08 - onsemi.New Original in Stock. Download Linear Technology FDB088N08 datasheet/specifications on AllelcoElec.com.
Request a quote for FDB088N08, please send us email: info@allelco.com

Specifications

FDB088N08 Tech Specifications

FDB088N08 - 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	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	6595 pF @ 25 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	118 nC @ 10 V
Supplier Device Package	D ² PAK (TO-263)	FET Type	N-Channel
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	8.8mOhm @ 75A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	160W (Tc)	Drain to Source Voltage (Vdss)	75 V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	120A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDB088

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDB088N08

Product Attribute				
Part Number	FDB088N08	FDB075N15A-F085	FDB120N10	FDB110N15A
Manufacturer	onsemi	onsemi	Fairchild Semiconductor	onsemi
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
FET Feature	-	-	-	-
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Package	Tape & Reel (TR)	Tape & Reel (TR)	Bulk	Tape & Reel (TR)
Input Capacitance (Ciss) (Max) @ Vds	6595 pF @ 25 V	5595 pF @ 75 V	5605 pF @ 25 V	4510 pF @ 75 V
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	10V
Supplier Device Package	D ² PAK (TO-263)	D ² PAK (TO-263)	D2PAK (TO-263)	D ² PAK (TO-263)
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	4.5V @ 250µA	4V @ 250µA
Current - Continuous Drain (Id) @ 25°C	120A (Tc)	110A (Tc)	74A (Tc)	92A (Tc)
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Rds On (Max) @ Id, Vgs	8.8mOhm @ 75A, 10V	7.5mOhm @ 80A, 10V	12mOhm @ 74A, 10V	11mOhm @ 92A, 10V
Vgs (Max)	±20V	±20V	±20V	±20V
Drain to Source Voltage (Vdss)	75 V	150 V	100 V	150 V
Series	PowerTrench®	Automotive, AEC-Q101, PowerTrench®	PowerTrench®	PowerTrench®
Power Dissipation (Max)	160W (Tc)	333W (Tc)	170W (Tc)	234W (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Base Product Number	FDB088	FDB075	-	FDB110
Gate Charge (Qg) (Max) @ Vgs	118 nC @ 10 V	95 nC @ 10 V	86 nC @ 10 V	61 nC @ 10 V

FDB088N08 Datasheet PDF

Download FDB088N08 pdf datasheets and onsemi documentation for FDB088N08 - onsemi.

Datasheets

FDB088N08.pdf

Environmental Information

onsemi RoHS.pdf

PCN Design/Specification

Logo 17/Aug/2017.pdf

Description Chg 01/Apr/2016.pdf

PCN Packaging

Mult Devices 24/Oct/2017.pdf

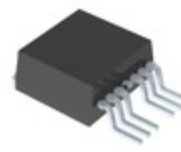

















TO263 31/Aug/2016.pdf

PCN Assembly/Origin

Assembly Change 09/May/2023.pdf

Customers Also Interested in

Recommended Products

 FDB075N15A-F085 onsemi MOSFET N-CH 150V 110A D2PAK	 FDB070AN06_F085 Fairchild (onsemi)	 FDB075N15A MOS Fairchild (onsemi)	 FDB120N10 MOS AMI Semiconductor/onsemi	 FDB082N15A MOS Fairchild (onsemi)	 FDB120N10 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 7
 FDB110N15A onsemi MOSFET N-CH 150V 92A D2PAK	 FDB110N15A Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 9	 FDB075N15A-F085C AMI Semiconductor/onsemi	 FDB10AN06AO Fairchild (onsemi)	 FDB082N15ATM Fairchild (onsemi)	 FDB10AN06AO onsemi MOSFET N-CH 60V 12A/75A TO263AB
 FDB075N15A onsemi MOSFET N-CH 150V 130A D2PAK	 FDB088N08 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 8	 FDB082N15A onsemi MOSFET N-CH 150V 117A D2PAK	 FDB075N15A_F085 Fairchild (onsemi)	 FDB070AN06AO Fairchild (onsemi)	 FDB120N10 onsemi MOSFET N-CH 100V 74A D2PAK

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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