



Image may be representation.
See specifications for product details.



FDB86563-F085

Manufacturer Part Number	FDB86563-F085
Manufacturer	onsemi
Allelco Part Number	32D-FDB86563-F085
ECAD Model	PCB Footprint and Symbol
Parts Description	MOSFET N-CH 60V 110A D2PAK
Package	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB
Data sheet	FDB86563-F085.pdf
RoHs Status	ROHS3 Compliant

[Get a Quote](#)

FDB86563-F085 - onsemi.New Original in Stock. Download Linear Technology FDB86563-F085 datasheet/specifications on AllelcoElec.com.
Request a quote for FDB86563-F085, please send us email: info@allelco.com

Specifications

FDB86563-F085 Tech Specifications

FDB86563-F085 - 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	10100 pF @ 30 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	163 nC @ 10 V
Supplier Device Package	D ² PAK (TO-263)	FET Type	N-Channel
Series	Automotive, AEC-Q101, PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	1.8mOhm @ 80A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	333W (Tc)	Drain to Source Voltage (Vdss)	60 V
Package / Case	TO-263-3, D ² Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	110A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDB86563

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDB86563-F085

Product Attribute				
Part Number	FDB86563-F085	FDB86569-F085	FDB86363-F085	FDB8832
Manufacturer	onsemi	onsemi	onsemi	onsemi
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)	-55°C ~ 175°C (TJ)
Vgs (Max)	±20V	±20V	±20V	±20V
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
Supplier Device Package	D ² PAK (TO-263)	D ² PAK (TO-263)	D ² PAK (TO-263)	D ² PAK (TO-263)
Gate Charge (Qg) (Max) @ Vgs	163 nC @ 10 V	52 nC @ 10 V	150 nC @ 10 V	265 nC @ 10 V
Series	Automotive, AEC-Q101, PowerTrench®	Automotive, AEC-Q101, PowerTrench®	Automotive, AEC-Q101, PowerTrench®	PowerTrench®
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Vgs(th) (Max) @ Id	4V @ 250µA	4V @ 250µA	4V @ 250µA	3V @ 250µA
Drain to Source Voltage (Vdss)	60 V	60 V	80 V	30 V
Current - Continuous Drain (Id) @ 25°C	110A (Tc)	80A (Tc)	110A (Tc)	34A (Ta), 80A (Tc)
Input Capacitance (Ciss) (Max) @ Vds	10100 pF @ 30 V	2520 pF @ 30 V	10000 pF @ 40 V	11400 pF @ 15 V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Power Dissipation (Max)	333W (Tc)	94W (TJ)	300W (Tc)	300W (Tc)
Base Product Number	FDB86563	FDB86569	FDB86363	FDB883
Drive Voltage (Max Rds On, Min Rds On)	10V	10V	10V	4.5V, 10V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Rds On (Max) @ Id, Vgs	1.8mOhm @ 80A, 10V	5.6mOhm @ 80A, 10V	2.4mOhm @ 80A, 10V	1.9mOhm @ 80A, 10V
FET Feature	-	-	-	-

FDB86563-F085 Datasheet PDF

Download FDB86563-F085 pdf datasheets and onsemi documentation for FDB86563-F085 - onsemi.

Datasheets

[FDB86563-F085.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

PCN Design/Specification

Logo 17/Aug/2017.pdf

PCN Packaging

Mult Devices 24/Oct/2017.pdf

PCN Part Number

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

PCN Assembly/Origin

Cancellation 19/Oct/2021.pdf

Customers Also Interested in

Recommended Products

FDB86569-F085 onsemi MOSFET N-CH 60V 80A D2PAK	FDB86135 MOS Fairchild (onsemi)	FDB86366_F085 Fairchild (onsemi)	FDB86363_F085 Fairchild (onsemi)	FDB86569_F085 Fairchild (onsemi)	FDB86363-F085 onsemi MOSFET N-CH 80V 110A D2PAK
FDB86102LZ MOS Fairchild (onsemi)	FDB8832 onsemi MOSFET N-CH 30V 34A/80A TO263AB	FDB8832 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 3	FDB86360-F085 onsemi MOSFET N-CH 80V 110A D2PAK	FDB8832 MOS Fairchild (onsemi)	FDB86360 Fairchild (onsemi)
FDB8860 onsemi MOSFET N-CH 30V 80A TO263AB	FDB86135 onsemi MOSFET N-CH 100V 75A D2PAK	FDB86363 Fairchild (onsemi)	FDB86566-F085 onsemi MOSFET N-CH 60V 110A D2PAK	FDB8860 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 3	FDB86360_F085 Fairchild (onsemi)

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.

- Phone
+00852 9146 4856
- Email
info@allelco.com

Certifications & Memberships



View More

Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong

Phone: +00852 9146 4856

Fax: +00852 3010 8510

Email: info@Allelco.com

