

Image may be representation.
See specifications for product details.



FDD86569-F085

Manufacturer Part Number	FDD86569-F085
Manufacturer	onsemi
Allelco Part Number	32D-FDD86569-F085
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 60V 90A DPAK
Package	TO-252-3, DPak (2 Leads + Tab), SC-63
Data sheet	FDD86569_F085.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

FDD86569-F085 - onsemi.New Original in Stock. Download Linear Technology FDD86569-F085 datasheet/specifications on AllelcoElec.com.
Request a quote for FDD86569-F085, please send us email: info@allelco.com

Specifications

FDD86569-F085 Tech Specifications

FDD86569-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	2520 pF @ 30 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	52 nC @ 10 V
Supplier Device Package	TO-252AA	FET Type	N-Channel
Series	Automotive, AEC-Q101, PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	5.7mOhm @ 80A, 10V	Drive Voltage (Max Rds On, Min Rds On)	10V
Power Dissipation (Max)	150W (TJ)	Drain to Source Voltage (Vdss)	60 V
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	90A (Tc)
Package	Tape & Reel (TR)	Base Product Number	FDD86569

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDD86569-F085

Product Attribute				
Part Number	FDD86569-F085	FDD8750	FDD8750	FDD86381-F085
Manufacturer	onsemi	onsemi	Fairchild Semiconductor	onsemi
Base Product Number	FDD86569	FDD875	-	FDD86381
Vgs (Max)	±20V	±20V	±20V	±20V
Supplier Device Package	TO-252AA	TO-252AA	TO-252, (D-Pak)	TO-252AA
Input Capacitance (Ciss) (Max) @ Vds	2520 pF @ 30 V	425 pF @ 13 V	425 pF @ 13 V	866 pF @ 40 V
Vgs(th) (Max) @ Id	4V @ 250µA	2.5V @ 250µA	2.5V @ 250µA	4V @ 250µA
FET Feature	-	-	-	-
Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-252-3, DPak (2 Leads + Tab), SC-63
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Package	Tape & Reel (TR)	Tape & Reel (TR)	Bulk	Tape & Reel (TR)
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Power Dissipation (Max)	150W (TJ)	3.7W (Ta), 18W (Tc)	3.7W (Ta), 18W (Tc)	48.4W (TJ)
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	5.7mOhm @ 80A, 10V	40mOhm @ 2.7A, 10V	40mOhm @ 2.7A, 10V	21mOhm @ 25A, 10V
Drive Voltage (Max Rds On, Min Rds On)	10V	4.5V, 10V	4.5V, 10V	10V
Gate Charge (Qg) (Max) @ Vgs	52 nC @ 10 V	9 nC @ 10 V	9 nC @ 10 V	21 nC @ 10 V
Series	Automotive, AEC-Q101, PowerTrench®	PowerTrench®	PowerTrench®	Automotive, AEC-Q101, PowerTrench®
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Drain to Source Voltage (Vdss)	60 V	25 V	25 V	80 V
Current - Continuous Drain (Id) @ 25°C	90A (Tc)	6.5A (Ta), 2.7A (Tc)	6.5A (Ta), 2.7A (Tc)	25A (Tc)

FDD86569-F085 Datasheet PDF

Download FDD86569-F085 pdf datasheets and onsemi documentation for FDD86569-F085 - onsemi.

Datasheets

[FDD86569_F085.pdf](#)

Environmental Information

[onsemi RoHS.pdf](#)

PCN Design/Specification

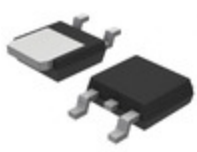





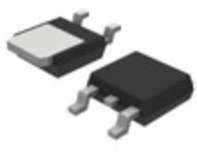
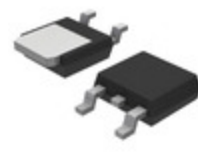





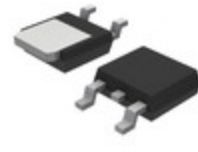




PCN Packaging

PCN Part Number

PCN Assembly/Origin

Customers Also Interested in

Recommended Products

 FDD8750 onsemi MOSFET N-CH 25V 6.5A/2.7A DPAK	 FDD8750 Fairchild Semiconductor MOSFET N-CH 25V 6.5A/2.7A DPAK	 FDD86567 Fairchild (onsemi)	 FDD86381-F085 onsemi MOSFET N-CH 80V 25A DPAK	 FDD86580-F085 onsemi MOSFET N-CH 60V 50A DPAK	 FDD86580 Fairchild (onsemi)
 FDD86540 onsemi MOSFET N-CH 60V 21.5A/50A DPAK	 FDD86567-F085 onsemi MOSFET N-CH 60V 100A DPAK	 FDD8647L MOS Fairchild (onsemi)	 FDD86380-F085 onsemi MOSFET N-CH 80V 50A DPAK	 FDD86569 Fairchild (onsemi)	 FDD86581 Fairchild (onsemi)
 FDD8770 onsemi MOSFET N-CH 25V 35A TO252AA	 FDD86581-F085 onsemi MOSFET N-CH 60V 25A DPAK	 FDD8750 MOS Fairchild (onsemi)	 FDD8647L Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1	 FDD8647L onsemi MOSFET N-CH 40V 14A/42A DPAK	 FDD86381 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
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Contact us if you have any questions.

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Certifications & Memberships



View More

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