



Image may be representation.
See specifications for product details.



FDS8449-F085

Manufacturer Part Number	FDS8449-F085
Manufacturer	onsemi
Allelco Part Number	32D-FDS8449-F085
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 40V 7.6A 8SOIC
Package	8-SOIC (0.154", 3.90mm Width)
Data sheet	FDS8449_F085.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

FDS8449-F085 - onsemi.New Original in Stock. Download Linear Technology FDS8449-F085 datasheet/specifications on AllelcoElec.com.
Request a quote for FDS8449-F085, please send us email: info@allelco.com

Specifications

FDS8449-F085 Tech Specifications

FDS8449-F085 - 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	3V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Input Capacitance (Ciss) (Max) @ Vds	760 pF @ 20 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	11 nC @ 10 V
Supplier Device Package	8-SOIC	FET Type	N-Channel
Series	Automotive, AEC-Q101, PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	29mOhm @ 7.6A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	2.5W (Ta)	Drain to Source Voltage (Vdss)	40 V
Package / Case	8-SOIC (0.154", 3.90mm Width)	Current - Continuous Drain (Id) @ 25°C	7.6A (Ta)
Package	Tape & Reel (TR)	Base Product Number	FDS8449

Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi FDS8449-F085

Product Attribute				
Part Number	FDS8449-F085	FDS8447	FDS86140	FDS8447
Manufacturer	onsemi	Fairchild Semiconductor	Fairchild Semiconductor	onsemi
Rds On (Max) @ Id, Vgs	29mOhm @ 7.6A, 10V	10.5mOhm @ 12.8A, 10V	9.8mOhm @ 11.2A, 10V	10.5mOhm @ 12.8A, 10V
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Input Capacitance (Ciss) (Max) @ Vds	760 pF @ 20 V	2600 pF @ 20 V	2580 pF @ 50 V	2600 pF @ 20 V
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	6V, 10V	4.5V, 10V
Base Product Number	FDS8449	-	-	FDS84
Power Dissipation (Max)	2.5W (Ta)	2.5W (Ta)	2.5W (Ta), 5W (Tc)	2.5W (Ta)
Series	Automotive, AEC-Q101, PowerTrench®	PowerTrench®	PowerTrench®	PowerTrench®
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Gate Charge (Qg) (Max) @ Vgs	11 nC @ 10 V	49 nC @ 10 V	41 nC @ 10 V	49 nC @ 10 V
Drain to Source Voltage (Vdss)	40 V	40 V	100 V	40 V
Current - Continuous Drain (Id) @ 25°C	7.6A (Ta)	12.8A (Ta)	11.2A (Ta)	12.8A (Ta)
Supplier Device Package	8-SOIC	8-SOIC	8-SOIC	8-SOIC
Vgs (Max)	±20V	±20V	±20V	±20V
Vgs(th) (Max) @ Id	3V @ 250µA	3V @ 250µA	4V @ 250µA	3V @ 250µA
FET Feature	-	-	-	-
Package	Tape & Reel (TR)	Bulk	Bulk	Tape & Reel (TR)
Package / Case	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)

FDS8449-F085 Datasheet PDF

Download FDS8449-F085 pdf datasheets and onsemi documentation for FDS8449-F085 - onsemi.

Datasheets

[FDS8449_F085.pdf](#)

Environmental Information

[onsemi REACH.pdf](#)

[onsemi RoHS.pdf](#)

PCN Design/Specification

PCN Packaging

Mult Devices 24/Oct/2017.pdf

MSL1 Pkg Chg 20/Dec/2018.pdf

PCN Part Number

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

PCN Obsolescence/ EOL

Mult Dev EOL 20/Dec/2021.pdf

Customers Also Interested in

Recommended Products

<p>FDS8449_NL Fairchild (onsemi)</p>	<p>FDS86106-NL Fairchild (onsemi)</p>	<p>FDS8433A-NL Fairchild (onsemi)</p>	<p>FDS8433A MOS Fairchild (onsemi)</p>	<p>FDS8447 Fairchild Semiconductor POWER FIELD-EFFECT TRANSISTOR, 1</p>	<p>FDS86140 Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI</p>
<p>FDS8449-NL Fairchild (onsemi)</p>	<p>FDS8447 MOS Fairchild (onsemi)</p>	<p>FDS8447 onsemi MOSFET N-CH 40V 12.8A 8SOIC</p>	<p>FDS8447_NL FDS</p>	<p>FDS8449 Fairchild Semiconductor SMALL SIGNAL FIELD-EFFECT TRANSI</p>	<p>FDS86141 onsemi MOSFET N-CH 100V 7A 8SOIC</p>
<p>FDS86106 onsemi MOSFET N-CH 100V 3.4A 8SOIC</p>	<p>FDS86140 onsemi MOSFET N-CH 100V 11.2A 8SOIC</p>	<p>FDS8447-NL Fairchild (onsemi)</p>	<p>FDS8449 onsemi MOSFET N-CH 40V 7.6A 8SOIC</p>	<p>FDS8449 MOS Fairchild (onsemi)</p>	<p>FDS8449_F085 AMI Semiconductor/onsemi</p>

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 Alleco 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.

Phone +00852 9146 4856	Email info@alleco.com
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Certifications & Memberships



View More

Contact us

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